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AKDENİZ UNIVERSITY

INSTITUTE OF EDUCATIONAL SCIENCES

DEPARTMENT OF FOREIGN LANGUAGES

EDUCATION

**MA
THESIS**

**LEXICAL CONTENT ANALYSIS OF
A CORPUS-INFORMED ELT TEXTBOOK AND
A TRADITIONALLY-PREPARED TEXTBOOK**

MÜRÜVVET SÖĞÜT

ENGLISH LANGUAGE TEACHING

MASTER'S PROGRAM

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Supervisor: Asst. Prof. Dr. Ersen VURAL

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ABSTRACT

LEXICAL CONTENT ANALYSIS OF A CORPUS-INFORMED ELT TEXTBOOK AND A TRADITIONALLY-PREPARED TEXTBOOK

Sögüt, Mürüvvet

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This study investigates the vocabulary profile of a corpus-informed ELT textbook and a traditionally-prepared ELT textbook in terms of their coverage of 2000 high-frequency words of New General Service List (NGSL). It also aims to demonstrate the similarities and differences in the lexical frequency profiles of each book, using a corpus-based approach. The sample course books analyzed are Touchstone 3 and Headway Pre-intermediate. Vocabulary Profiler Compleat and Frequency tools are utilized to profile the lexical content of the textbooks. The overall profile reveals that vocabulary coverage of the most frequent 2000 words of English (NGSL-1 and NGSL-2) is 74.2% in the corpus-informed textbook and 82.2% in the conventional course book, indicating that they are below the desired level for good comprehension and the lexical coverage of high frequency words in corpus-informed textbook is lower. Moreover, this study examines the type-token ratios (TTR) of the textbooks to find out the recycling rate of the vocabulary. The result shows that both course books, especially the corpus-informed textbook, need more systematic coverage and recycling of high frequency words.

Key Words: Vocabulary, word frequency, corpus-informed textbook, high-frequency words, vocabulary profiler, course book evaluation.

ÖZET

DERLEM DESTEKLİ BİR İNGİLİZCE DERS KİTABI İLE GELENEKSEL OLARAK HAZIRLANMIŞ BİR DERS KİTABININ KELİME DAĞARCIĞI PROFİLLERİNİN İNCELENMESİ

Söğüt, Mürüvvet

Yüksek Lisans, İngiliz Dili Eğitimi Ana Bilim Dalı

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Bu çalışma, derlem destekli bir İngilizce ders kitabı ile geleneksel olarak hazırlanmış bir İngilizce ders kitabının kelime içeriklerinin genel İngilizcede en sık karşılaşılan 2000 kelimeyi (NGSL) kapsama oranlarını araştırmaktadır. Ayrıca bu araştırma derlem tabanlı bir yaklaşım kullanarak her kitabın sözcüksel sıklık profillerindeki benzerlikleri ve farklılıkları göstermeyi amaçlar. Analiz edilen örnek ders kitapları Touchstone 3 ve Headway Pre-intermediate'dir. Ders kitaplarının sözcüksel içeriğinin profilini çıkarmak için 'Vocabulary Profiler Compleat' ve 'Frequency' araçları kullanılmıştır. En sık kullanılan 2000 İngilizce kelimenin (NGSL-1 ve NGSL-2) kapsama oranlarının derlem tabanlı ders kitabında %74,2 ve geleneksel ders kitabında %82,2 olduğu ve bu kelimelerin kapsama oranlarının her iki kitapta da istenen seviyenin altında bulunduğu ortaya çıkmıştır. Bu sonuç aynı zamanda İngilizcenin en sık kullanılan kelimelerinin içeriğinin derlem tabanlı ders kitabında daha düşük olduğunu da göstermektedir. Ayrıca, bu çalışma, kitaplardaki kelimelerin tekrar oranını bulmak için ders kitaplarındaki kelime türlerinin (type) farklı kelimelerin (token) toplamına oranını (TTR) da incelemektedir. Sonuç, her iki ders kitabının, özellikle de derlem tabanlı ders kitabının, yüksek frekanslı kelimelerin daha sistematik bir şekilde kapsanmasına ve tekrar edilmesine ihtiyaç duyduğunu göstermektedir.

Anahtar Sözcükler: Kelime dağılımı, kelime frekansı, derlem tabanlı ders kitabı, yüksek frekanslı kelimeler, kelime profili oluşturucu, ders kitabı değerlendirme.

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LIST OF ABBREVIATIONS

BNC: British National Corpus

CEFR: Common European Framework of Reference for Languages

CLT: Communicative Language Teaching

EFL: English as a Foreign Language

ELT: English Language Teaching

ESL: English as a Second Language

GSL: General Service List

L2: Second Language

NGSL-1: New General Service List I

NGSL-2: New General Service List II

NGSL-3: New General Service List III

AWL: Academic Word List

NAWL: New Academic Word List

CHAPTER I

1. INTRODUCTION

Learning a second or foreign language is becoming an essential aim for a large number of people with different purposes these days. As well as helping in everyday conversations when travelling, it may be a significant advantage for better career opportunities or getting education abroad. Moreover, acquisition of a new language is known to have a lot of mental benefits such as improving memory, creativity, thinking and also problem-solving skills.

Depending on the goal of learning an additional language, the skill needed to be focused may vary. No matter what area of the language such as reading, listening, grammar or writing is studied having a good command of it would require sufficient comprehension of the context. Regarding the comprehensibility of a text, having a grasp of lexical and grammar structures is necessary to decode the message in the minds of language learners. However, as Lewis (1993) argues “vocabulary or lexis carries more of the meaning of a text than does the grammar” (p.17). In other words, for a meaningful communication, correct use of words is more essential than correct use of grammar.

In their study based on a corpus of learners’ errors, Doughty and Long (2003) observed that most of the mistakes made while communicating in another language derive from gaps in learners’ knowledge of L2 lexis. In their study, vocabulary errors were found to occur in learners’ productions three times more than grammar mistakes.

The significance of lexis can be better realized when we consider that a sentence with a grammatical mistake could still be understood but a lexical error would seriously impede the communication process (Gass, 1988). That can explain why vocabulary learning and adequate word knowledge for developing both spoken and written language skills are essential. Laufer and Sim (1985) emphasize the same point by noting that without sufficient vocabulary knowledge our understanding of the input would be hampered severely.

In traditional teaching contexts the emphasis had long been on improving learners’ grammar knowledge, hence the significance of vocabulary used to be disregarded for a long period of time. In recent years, a growing number of studies have been researching the importance and the nature of vocabulary acquisition e.g., Carter and McCarthy (1988), Nation

(1990), Arnaud and Bejoint (1992), Coady and Huckin (1997), Schmitt (1997, 2000), Koosha and Sharifi (2004). In one such study, Meara (1980) commented that it is a discrimination to overlook vocabulary acquisition in the field of language teaching.

As a possible explanation for linguists' tendency to disregard the importance of lexical acquisition, Laufer (1986) proposed that vocabulary can be considered as an open set rather than closed system, which means that grammar and phonology lend themselves to generalization and abstraction. For this reason, there has been a tendency to work more on learners' mastering L2 grammar and phonology as they are more manageable aspects of the language for learners. According to Laufer (1986) another reason is that "development in semantics, sociolinguistics and pragmatics changed the view of language from abstract to that of a more idealized, social and functional phenomenon. Therefore, the interest has shifted from sounds and structures to meaning, discourse and speech acts" (p. 71).

Furthermore, with the change of focus from accuracy to fluency and communicative competence in language development, conveying the meaning and lexis became a crucial aspect of language teaching. Improving fluency was also emphasized by Krashen and Terrell (1983) especially at the time when Krashen (1981) put forward his ideas on comprehensible input, a hypothesis which suggests that the input we get in learning process should be understandable and a little beyond our current level in order to acquire the language effortlessly.

Although views on vocabulary teaching evolved with the developments in language teaching field and technology, one thing that has remained unchanged is the use of textbooks in the learning process, especially in language classrooms. It is widely agreed that ELT textbooks play a central role in most of language learning environments.

Even though much of the input learners receive is based on the ELT textbook in most language learning contexts, course books are criticized for presenting inauthentic language and vocabulary in their content. In this regard, it is not hard to see a gap in our knowledge about the extent to which language teaching course books reflect authentic use of language. There is very limited study on the nature of lexical content of course books. This is especially true for the corpus-based analysis of the authentic use of English language in their content.

Researchers have been using corpus-based approaches for the evaluation and the development of materials in language teaching field since the 1990s. A corpus is formed by gathering spoken or written data of native speakers' use of language from different sources

such as TV shows, radio broadcasts, magazines, newspapers and books. It provides invaluable information for applied linguists and many other researchers in related fields about how native speakers use of language in different contexts.

A corpus allows us to analyze language data and search for specific lexical or other linguistic information such as their context of use, frequency of occurrence, collocational relationships between other words.

Apart from showing language use in different situations, corpus use is crucial for teachers, researchers and material developers in their attempt to find out the most useful words and structures based on their frequency or to check how spoken language differs from written one.

A word frequency refers to how many times it occurs in a context or discourse. Frequency of use is an important aspect of lexical information, and it must be taken into consideration in all language learning processes. That is because there are countless words in a language, and we cannot commit all of them to our memory. It would be wise to concentrate on the most frequently occurring words and phrases in language in the process of selecting the content of language teaching materials.

1.1. Problem Statement

ELT textbooks are commonly used as a source in the field of language learning and teaching (Harmer 1991) to get learners engage with language in meaningfully designed tasks. ELT course books provide learners with most of the language input in the learning process; however, their vocabulary content is not usually analyzed exhaustively, especially from a corpus-based perspective. Researchers, teachers and textbook designers alike can benefit from the findings of the corpus studies and corpus-based analysis in their attempt to determine to what extent the content of the textbooks reflects the real use of the language and how the structures or lexis in course books deviate from that of native speakers.

In the last few decades the use of corpus-based approaches for the development and the evaluation of materials in language teaching field has gained importance. While research on corpus and corpus-informed materials has increased in recent years, many of the textbook authors do not draw on the results of these studies as the basis for the creation of the course books.

Moreover, studies reveal that there is a lack of systematic approach in the coverage, selection and distribution of vocabulary input in textbooks. It is claimed that for an efficient learning process, learners must master 1,500-2,000 high-frequency words in a shorter time span in the initial stages of learning. As these words are considered to be the most useful vocabulary, it is argued that they deserve more attention and a systematic approach in the teaching and learning process (Nation, 2006).

The use of corpora to determine the lexical content of textbooks, particularly high-frequency word lists that are derived from corpora, has challenged and revolutionized the conventional approaches to textbook design and analysis. However, only very few textbook authors have adopted corpus-based approaches in the process of developing language teaching course books. This apparent lack of interest in corpus informed approaches to developing materials and textbooks indicates that course book writers mostly rely on their intuition to select and compile the lexical content of the books.

In this regard, it is essential to analyze the difference between the lexical content of corpus-informed and traditionally prepared ELT textbooks for the second and foreign language instruction. Presentation of authentic and most frequent words of English in textbooks is an important aspect of the design process because it would facilitate communication for learners as they can readily use current words and phrases in everyday situations.

Given the importance of including high frequency words in language teaching course books, there is a need to carefully examine the lexical coverage of textbooks and materials. Certain course books available to learners in recent years have been touted as ‘corpus-informed’ by their authors. There has not been much research done to ascertain this claim about the lexical coverage of those textbooks. It is still not known whether course books defined as ‘corpus-informed’ vary by some means from conventional ones in terms of their lexical coverage.

Based on the need for investigating that aspect of lexical selection process in course book design, the present study is carried out to compare the coverage of high-frequency words included in both types of books and checking whether they are distributed and recycled in a systematic fashion.

1.2. Purpose of the Study

This study investigates presentation of vocabulary items in a ‘corpus-informed’ language teaching course book, *Touchstone Level 3, Student’s Book*, and a traditional textbook, *Headway Pre-intermediate Level, Student’s Book*, in terms of their lexical coverage and recycling patterns of the lexical items.

In order to evaluate their effectiveness in terms of vocabulary content, the two books will be compared based on the most frequent 2,000 words of New General Service List (NGSL).

The research questions addressed in this study are:

1. What is the coverage level of the most frequent 2,000 words of NGSL in a corpus-informed textbook (*Touchstone Level 3, Student’s Book*) and a conventional course book (*Headway, Pre-intermediate level Student’s Book*)?
2. What is the recurrence rate of words in a corpus-informed and a traditionally-prepared course book?
3. What is the recycling rate of the randomly selected words in two textbooks?

3.1. To what extent does occurrence frequency of randomly selected words in two textbooks reflect corpus-based frequency ordering?

1.3. Significance of the Study

With the advancements in the use of computers in ELT for collecting language data and forming corpora, it has become possible to see and reflect the common use of everyday English in many different contexts. It is crucial to integrate the results of corpus-based studies to design more effective corpus-informed textbooks.

Although there are clear guidelines in Common European Framework of Reference for languages about word selection, word frequency and grading, many of the textbooks do not adhere to such criteria. There is lack of a corpus-based and systematic approach in most of the textbooks.

In the process of textbook design, the following considerations are of utmost significance, to which the authors of textbooks are usually expected to pay attention:

- i) how many words should be included in the textbook,
- ii) which vocabulary items to cover and how to select them,
- iii) required recycling rate and how to distribute the words in different units.

In this regard, a comparison of the lexical content of corpus-informed ELT textbooks with traditionally prepared textbooks may improve presentation of vocabulary items in terms of better coverage, distribution and more systematic recycling of vocabulary items.

In Turkish context, one can observe that only a limited number of studies adopted a corpus-based approach for vocabulary analysis of textbooks. A review of related literature on this subject would show that there is relatively little research addressing the comparative analysis of lexical content of a corpus-informed and traditionally prepared course book.

Results of this study is expected to raise awareness of teachers, researchers and textbook writers of the fact that there are high-frequency word lists extracted from corpora that should be given priority in determining the vocabulary profile of ELT books. Moreover, these high-frequency word lists may be used to determine which lexical items are infrequent and less useful in books and accordingly to exclude them in the design process.

Studies on teachers' perspective of corpus use would affirm that language teachers are not cognizant of the existence of such a rich authentic source, thus they are not expected to use corpora for developing materials. There is an obvious need for informing teachers about the significance of lexical selection regarding the materials adopted for classroom use. For this reason, helping teachers in the first place to analyze the textbook they use and to supplement them could facilitate the task of wisely selecting most useful lexical items in instructional materials used in the classroom.

1.4. Limitations of the Study

In this research the data is collected from the lexical content of two different English textbooks: the first is a corpus-informed course book and the other one is a traditionally-prepared course book.

A corpus-informed textbook is selected assuming that it is more sensitive to common and authentic use of English and a traditionally-prepared textbook is chosen since it is among the well-known English course books and it is easy to reach. In order to make the research content more manageable reading sections of the books are examined to profile the lexical coverage of the most frequent 2000 words of NGSL in two types of ELT books.

Therefore, both the number of books and sections investigated within the books may be considered to be extended. Lastly, the same type of comparative vocabulary profile analysis of textbooks can be carried out by using different high-frequency word lists as the basis.

1.5. Glossary

Lexical content: Vocabulary components included in textbooks.

Vocabulary coverage: The number of high-frequency words included in a corpus-informed or a traditionally prepared textbook based on the corpus-assisted lists.

Vocabulary selection: The types of words that are selected and which criteria are used to choose them.

Vocabulary distribution: The number of types a vocabulary item is repeated in the textbook and the pattern of recycling within the different units.

Token: Total number of words in a text in which every repetition is included.

Type: The number of all the different words in a text in which the same words will be counted only once.

Type-token ratio: The rate of total number of items and different words in a text, which indicates whether there is diversity or repetition in vocabulary coverage of the textbook.

NGSL-1: The most frequent 1000 high frequency words of New General Service List.

NGSL-2: Second most frequent 1000 high frequency words of New General Service List.

NAWL: The most common 960 academic words of English.

Off-list: Textbook words which do not appear in any of NGSL and NAWL lists.

CHAPTER II

2. LITERATURE REVIEW

2.1. Acquisition of Vocabulary

One of the cornerstones in language learning is developing adequate knowledge of vocabulary. In order to master a language, knowing a considerable number of words is necessary. For this reason, rather than carrying grammar books, learners carry dictionaries with them (Krashen, 1989). Moreover, for the comprehension of sentences in texts and discourse, understanding words is the most important point. According to Lewis “Language consists of grammaticalized lexis, not lexicalized grammar”(1993). That is, in creating meaning words play a central role and the role of grammar is secondary.

Even though mastering a wide range of vocabulary is needed to achieve a meaningful communication, systematization of the vocabulary has been a neglected aspect of the foreign language teaching. Studies in second language acquisition has typically researched the size of vocabulary learners have (breadth of the vocabulary) rather than how well (the depth) the words are known (Vermeer, 2001). The nature of vocabulary acquisition, how it relates to other language skills and its role in accuracy and fluency began to be further researched when Communicative Language Teaching attracted more attention. Importance of vocabulary in language proficiency has been studied by a growing number of researchers especially since the emergence of CLT (Laufer & Hulstijn 2001; Nation, 2001). The reason behind it is that language fluency has been associated with having a good command of the vocabulary in the language (Laufer & Goldstein, 2004).

According to Nation (2001), a word’s meaning, form and its use all make up the knowledge of a word. However, there are also other factors such as the style of the language, associations and collocations (Nation, 2013). Nordlund (2016) remarks that “learning new words involves the acquisition of vocabulary breadth as well as depth” (p. 50). Vocabulary breadth is acquired by getting the knowledge of different ways of expressing yourself and synonyms, and depth of vocabulary is important to gain the ability of idiomatic use of language such as selecting the correct collocations while communicating (Nordlund, 2016).

When some of the mentioned points are neglected in vocabulary learning process, learners cannot have the complete word knowledge, which may lead to an imbalance between

receptive and productive abilities. A learner may not be able to produce the word orally, but recognize it in a context, which is described as “degrees of word knowledge” by Melka (1997, p.88).

To be able to use the lexical items automatically, for gaining receptive and productive word knowledge (Tyler, 2012) encountering words a lot of times in varied contexts is essential.

Our brain stores the words in semantic networks, connected to each other (Aitchison, 2012). When the frequency of the context-rich encounters increases, only then learners construct deeper connections. This concept of forming deeper connections is also related to the levels of processing (Craik and Lockhart, 1972), a principle which asserts that when words are more deeply processed, it will result in a better storage in the long-term memory, which, in turn, will lead to easier retrieval of the words. Thus, this process results in internalizing and remembering the vocabulary in a better way (Nation, 2008).

2.2. Frequency Effect in Language and Vocabulary Learning

With corpus linguistics gaining attention in the field of language teaching and advances in computer technology, research on the role of word frequency on retention of words in memory grew in number (Nation, 1993a, Nation 1993b, Schmidt 2000). The term ‘frequency’ here is used to refer to the number of times a word is repeated in a context. The most frequent words in language are the ones that are used most frequently in daily language such as the word “*and, the, a, you*”, while low frequency words are the ones that are not commonly used in everyday language such as the word “*thine*”. It is therefore to be expected that learners’ level of familiarity with L2 words that occur frequently in language is higher than those that do not. This has a wide implication for lexical learning as it has strong impact on memorization, lexical access, word storage and retrieval.

The likely reason for the positive influence of high word frequency on memorization is the high amount of exposure learners are subject to (Laufer 1997). Similar to that, how learners access lexical items in their mental lexicon (lexical access) and how the lexis can be most effectively organized (lexical storage) are positively affected by frequency of vocabulary. Based on that, it can be concluded that to optimize lexical processing and retrieval, the number of times the word is repeated must be high.

As regards the biological bases of acquisition of knowledge, frequency and repetition have been shown to be determinants of language learning as have been evidenced by growing body of research in neurolinguistics (Tomasello & Brooks 1999; Bybee 2006; Anderson 2010). As Criado and Sancez (2012) explain “Neurologically, repetition of the same action affects the structure of specific synapses or connections among neurons, thus rendering future and similar tasks easier, and allowing for reaching automaticity after several trials.”

How the tasks are performed automatically with repetition effect can also be understood by looking at Newell & Rosenbloom’s (1981) Power Law of Practice theory, in which the role of practice frequency on learning is defined. In his explanation of Power Law of Practice, Ellis (2002a) states that the number of times a task is practiced is related to the speed of performance. As the word construction or memory is strengthened with each repetition, remembering high frequency words becomes easier.

Moreover, word recognition, processing and production stages get automatic and the task involved in the process are readily performed in parallel with frequency of word exposure in meaningful context. Thus, language fluency is thought to be facilitated with repeated practice even when the learner is not processing the information consciously as in the case of incidental lexical acquisition.

Divjak (2019) further support the argument of some researchers that by encountering a word more often, the threshold of activation in our memory gets lower. Threshold level is the minimum level of proficiency that the learners should reach to benefit from the use of a word meaning. With a lower threshold level for a word, learners would need less additional activation to recognize the word. In other words, recalling the word would take shorter time and effort.

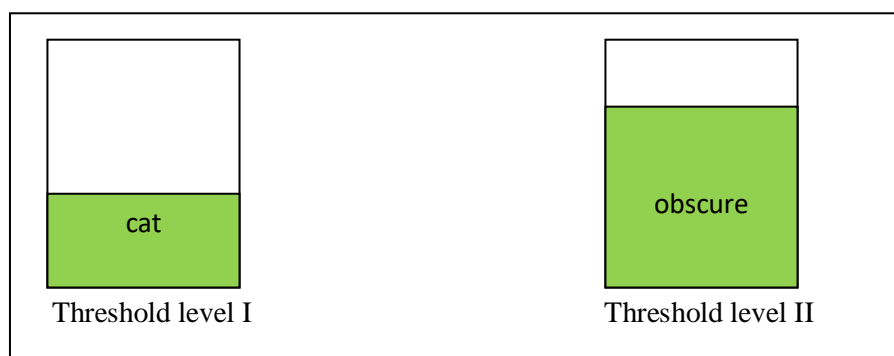


Figure 2.2 Comparison of Threshold Levels of Two Words

As can be seen in Figure 1, 'cat' is a word with higher frequency, so the activation level needed to reach this word is low. However, 'obscure' occurs less frequently in English contexts when compared to the other word and it requires a higher level of activation to recall this word. Therefore, it can be said that lower frequency words have higher threshold levels.

Research studies in psycholinguistics and cognitive sciences indicate that language acquisition is actually the result of a pattern-detection process, in which learners discover, gather, abstract and strengthen the rules unconsciously (Atkinson & Shiffrin 1968; Sinclair 1991; Ellis 2002; Tomasello 2003). Thus, it can be said that exposure to recurrent language samples results in form-meaning and form-function associations in the brain. Through frequent linguistic input, linguistic codes emerge and are strengthened through interactions during communication.

Repetition of experiences plays the biggest role in most learning situations and human activities for making the knowledge permanent and performance accurate (Criado and Sancez 2012). Also, in usage-based approach scholars like Tomasello (2003) and Behrens (2009) emphasize the importance of input frequency claiming that learners construct language knowledge by getting exposed to the language very often. When a word or structure is less frequently encountered, it is perceived as more complex by learners.

It is agreed that encountering words several times is necessary for gaining the receptive and productive ability to use a word; however, there is no agreement on the number of times needed this to happen. Waring and Takaki (2001), for example, maintains that 8 times or more repetition is required, whereas Cameron (2001) suggest 5-6 encounters would be enough to learn the new words. On the other hand, Schmitt (2008) disputes that even 8-10 exposures would only improve learners' recognition of the words. The number suggested by Nation and Wang (1999) is ten times and they also assert that meeting lexical item more times would result in better retention. Despite the differences in numbers suggested for retention, it is clear that learners need to meet the words more often to be able to use them appropriately with ease rather than just understanding their meanings.

In addition to frequency as a condition for lexical retention there are other considerations involved. According to Nation (2008) and Matsuoka (2012) for long term lexical retention to occur learners should also benefit from 'the spacing effect'. That is, spreading vocabulary learning over long periods can reinforce the teaching process and yield better results.

In the past, lexical frequency information was already employed in Audio-lingual method to decide on what vocabulary to choose for teaching at different levels (Sanchez, 2009).

2.2.1. Frequency in Corpus studies

Informed by the recent findings of corpus studies, many applied linguists such as Nation (2006) have posited that the most frequent words in language should be prioritized in language teaching. It stems from the fact that high-frequency words cover a big percentage of any type of text or discourse and they are learnt more quickly as compared to the low-frequency words. As a result of his analysis of nine spoken and written corpora, Nation (2006) found out that coverage of BNC' first 1000 word families is almost 80%.

In addition, language proficiency, communicative efficiency, is greatly determined by a learners' knowledge of most frequently used lexical items. This can be taken as the basis for the assumption that design of language teaching textbooks could also benefit from such information in order to reflect the real language usage. In more precise terms, it can be said that high-frequency word lists are expected to facilitate language learning process. Nevertheless, few textbook designers are guided by the findings revealed by corpus studies which attempt to analyze actual language use on the basis of lexical frequency. Lexical frequency bands created with the help of corpus studies should serve as criteria for vocabulary selection in the process of textbook design.

For elementary level students, the most frequent 800-1000 words were assumed to be necessary to learn, whereas the next 800-1000 or 2000 words were considered to be introduced to intermediate and advanced students. As the vocabulary analysis tools have advanced up to the present, helpful and reliable results are available for both teachers and textbook authors (Criado and Sanchez, 2012). Today it is quite easy to reach reliable information on the frequency lists of English vocabulary or any word frequency list of a specific context.

Important role of frequency in vocabulary acquisition is unquestionable (Webb 2007; Schmitt 2008; Nation 2008; Ellis 2013). Ellis (2012) emphasizes the frequency effect as “a key determinant of acquisition” (p.144).

In 1944, Thorndike and Lorge published a list of English word frequencies called ‘The Teacher’s Word Book of 30,000 Words’. Howes and Solomon (1951) conducted an

experimental study on the effect of word frequency which concluded that recognition of frequent words is much faster than the others. Another research showed that word recall and word frequency correlated positively (Hall, 1954). Cortese and Scarborough (1977) observed that frequently encountered words are accessed more readily than words with lower frequency. MacKay (1982) discovered that retrieval of high-frequency items is less subject to error.

2.2.2. Frequency Effect in Vocabulary learning

With growing body of research on the effects of exposure frequency on vocabulary learning, many studies drew attention to the importance of repeated exposure on processing and acquiring words, even in learning grammar.

In order to control the frequency and exposure effect on language, frequency lists were introduced. Research in this area emerged from corpus studies emphasizing that most frequent words in the language must be prioritized to meet the needs of the learners more efficiently (Horst, 2013).

Nation and Waring (1997) claim that with growing interest in teaching communicative aspect of the language, less emphasis is put on choosing and checking of language forms in designing courses. As attitudes change regarding the importance the form-focused instruction, benefits of explicit teaching of language forms such as syntax and lexicon were realized. This shift in attitude is also expected to change the way vocabulary teaching has conventionally been viewed. Today there is a consensus that textbook design process should make better use of frequency studies and vocabulary lists deriving from corpus studies.

2.3. Selection of Vocabulary in ELT pedagogy

Some of the well-known vocabulary lists that could be helpful for both learning and teaching English are: The Teacher's Word Book of 30,000 Words (Thorndike and Lorge, 1944) based on large written corpus of 18,000,000 words containing nearly 13,000 word families; The General Service List (West, 1953), based on a written corpus of 5,000,000 words, consists of 2,000 headwords; The Brown (Francis and Kucera, 1982) is based on 1,000,000 word written corpus; the University Word List (UWL) (Xue and Nation, 1984; Nation 1990) including 836 general academic words which could be studied as an additional list to the GSL for especially academic purposes.

Among the aforementioned word lists, West's General Service List (1953) is widely considered to be the most practical one for learners, teachers and textbook and course designers. Many years after the publication of the West's (1953) General Service List (GSL), an updated version of the list called New General Service List (NGSL) was prepared based on a larger (273 million-word subsection of the 2 billion word Cambridge English Corpus) corpus with a better coverage by Dr. Blent Culligan, Joseph Phillips and Dr. Charles Browne in 2013. With the creation of NGSL the coverage rate of GSL (84%) was increased to 92%, which provides understanding of the most of the vocabulary in many general English texts.

Word lists created with the use of corpus frequency information started to be used for educational purposes in the past. Since they can be used to expand learners' vocabulary knowledge in a targeted way, they gained popularity.

Nation and Meara (2002) maintain that studies of word frequencies provide a cost-benefit way in vocabulary teaching and learning. They also suggest that in addition to the most frequent words of English, different kinds of special purpose word lists can be prepared considering the learners' needs.

A common result of frequency counts is that 2,000 words of highest frequency cover almost 85% of the lexical items of any kind of texts in a book. Concentrating on widely used words would bring a useful return since their coverage is even bigger in spoken English (Nation and Newton, 1997).

2.4. Effect of Textbooks on Learners' Vocabulary Knowledge

Textbooks are the most common tools in almost all language learning contexts and they are used as the basis for both teaching and testing the content. Therefore, it is crucial that what is presented in materials and textbooks should be supported with the research results and pedagogical considerations. There is, however, very limited study on the lexical content of course books and especially on the corpus-based analysis of their authentic use of English. Although much of the input learners receive is based on textbooks they seem to fall short of reflecting actual hierarchy of lexical importance in language use.

EFL learners may not need to know and use all vocabulary in the course book. Therefore, studies analyzing the course books in terms of usefulness of their vocabulary perspective are growing in number and they deserve special attention.

When deciding which words to introduce and how to select these words, *Vocabulary Profiler* (www.lex tutor.ca) can be utilized. It profiles the vocabulary coverage in a textbook by comparing them with the list of high- frequency words. A well-established word list, the New General Service List (<http://www.newgeneralservicelist.org>) can be used for comparison to provide information about the proportion (percentage) of high-frequency words used in a textbook. In addition, the output provides information about negative vocabulary word frequency (high-frequency words that aren't included).

Systematic analysis of lexical input in course books can be effectively used for the development of students' vocabulary knowledge and designing more effective teaching materials. In their review of the research on vocabulary component of teaching materials, Nordlund and Norberg (2020) observed that studies revealed three common lacking points in materials: words are not selected with a systematic approach, repetition of the new words is not sufficient within the book, and lexical items do not adequately reflect the authentic use of English.

There are both non-corpus studies and corpus-based studies carried out for assessing the textbooks. The first group of studies focusing on the lexical content in ELT materials and textbooks is non-corpus studies. From a non-corpus based perspective, Scholfield (1991) conducted a study to find the rate of newly-introduced words and recycling of old words in EFL course books and concluded that there is a conflict about the rate of new items to be introduced within the different units and among the books. Martinez (1999) worked on the vocabulary activities in textbooks to see to what extent authors took the language learning theories into account. The conclusion was that textbook writers ignore much of the research on language learning.

As regards corpus-based research on the analysis of vocabulary input in ELT materials and textbooks, the studies can be divided into three groups: (1) Research on EFL syllabus design with the integration of corpora (Sinclair&Renouf 1988; Willis& Willis 1988; Flowerdew 1996), (2) Studies on application of concordancing programs in ELT (Johns 1989; Tribble 1990; Stevens 1991; Gavioli 1997), (3) investigation of existing ELT materials and textbooks.

There are more studies on the use of concordancing programs and corpora to design teaching materials when compared with the corpora use for the analysis of materials and textbooks. The research on the assessment of existing ELT materials and textbooks is limited in which attention has been paid mostly to the number of words included in the textbooks. The studies differ in their focus concerning the textbook type, their scope and the language researched.

While the corpora use has increased making the authentic language access much easier than in the past, Harwood argues that “the language taught in commercial materials differs markedly from the language that is actually used in spoken and written discourse” (2010, p. 9).

Lexical content of EFL textbooks was studied in a variety of research conducted (Takala 1984; Kaszubski 1998; Miranda 1990; Benitez Perez & Zebrowski 1993). However, findings demonstrate that the rationale behind the vocabulary selection in the current EFL/ESL context is not fixed yet. Takala (1984) and Miranda (1990) analyzed the vocabulary component of secondary school textbooks. Another study focusing on the distribution of vocabulary items in Spanish textbooks is Benitez & Zebrowski’s (1993) research. Investigation of vocabulary profile of English textbooks from different disciplines has been addressed by Kennedy (1994). These studies on the comparison of corpora and vocabulary profile of textbooks revealed a large number of infrequent words in everyday English and a disagreement on number, selection and repetition of lexical items in textbooks.

Academic texts aimed at English native speakers were analyzed in terms of their vocabulary input in another study (Sutarsyah, Nation & Kennedy, 1994). In 1991, Ljung compared the authentic use of English in textbooks in her study. Criado (2009) examined the recycling rate of different words in English teaching materials and reported that 58% of the words were repeated once or twice. Likewise, Erman (2009), Fujimori (2005), Norberg and Nordlund (2018) determined that the number of times words occurred in textbooks did not provide sufficient exposure for language acquisition.

Similar conclusions were made in a study by Konstantakis and Alexiou (2012) analyzing the lexical content in five EFL primary school textbooks used in Greece. They determined that the books were loaded with mid- and low-frequency words, which led to inclusion of only insufficient number (between 74% and 85%) of the high-frequency words on the BNC list.

According to Thornbury (2002) main problem with textbooks is deciding on which words to include from countless words in language. In many studies taking word frequency into consideration is suggested for course book authors and teachers. On the other hand, Reda (2003) identified that vocabulary content of many ELT books are *topic-based* and range of the items contained are quite limited in different books since the topics are very similar. Similar results were observed in the research related to vocabulary conducted in Turkey which mostly worked on teaching techniques. Also, studies focusing on textbooks neglected the lexical aspect and assessed types of tasks, gender and appropriateness of curriculum instead (Ünlü, 2012).

In another study, Agan (2008) investigated how comprehensible the EFL book used in public high schools was by comparing the lexical content of the book with the vocabulary size of the students. The findings showed that the book was not appropriate enough to the vocabulary levels of the students.

The research conducted in Turkey by Ünlü (2012) on loading, distribution, and repetition patterns of the 2000 high-frequency words of general English in an EFL course book revealed that the book covered only limited number of the most frequent words and neglected dimensions of vocabulary component in the textbook requires considerable attention.

The number of the words should also be considered as well as which words to include in course books. For this purpose, corpora-based high-frequency word lists might be useful in determining the words and Nation's (2001, 2006) way of counting words as token, type, word family, lemma could be used for quantifying the vocabulary component. In Nation's classification of the words, every word in a text is referred as a "token" even if the same word is repeated twice. For instance, in the sentence 'It was her decision to talk to her' number of tokens is eight. When a word is repeated more than once in a context, but counted only once it is referred as "type". In the previous example, 'It was her decision to talk to her' the number of types is seven. Two words are referred as "lemmas" when a headword occurs with its inflected forms and they are counted as single, for example student and students? "A word family consists of a base word and all its derived and inflected forms that can be understood by a learner without having to learn each form separately." (Bauer & Nation, 1993). Therefore, the words come, comes, came and coming can be accepted from the same word family.

Among all of the studies mentioned above, none of them worked on a corpus-informed English textbook. Moreover, there is no research addressing the comparative analysis of lexical content of a corpus-informed and traditionally-prepared course book.

CHAPTER III

3. RESEARCH METHODOLOGY

3.1. Research Design

Use of corpora in language teaching has been gaining more attention recently since the emergence of corpus linguistics. Taking a corpus-based approach in language learning has important advantages. There are studies demonstrating how corpora can be used for textbook and material development and course book evaluation. Among these, most practical use of corpora is the application of it for the purpose of curriculum and textbook development and evaluation since the use of corpus gives us the opportunity to compare the content of the textbook with authentic data and update the English course books and by replacing their content with more realistic data.

In order to use corpus linguistics methodology, technology needed is a computer to store collected text files and software that is applied to the corpus of texts to produce word frequency lists. Also, software can sometimes be used to compare the words in a corpus with already existing word frequency lists. Thanks to the use of computers, extensive analysis may be carried out on a corpus through simple programs that save time.

In this research, corpora containing two different English textbooks will be investigated using a quantitative corpus linguistics methodology and purposive sampling method focusing on the lexical content of each book by means of a vocabulary profiler tool on a website, Compleat Lexical Tutor (www.lextutor.ca). With the help of this corpus linguistics program, detailed information will be obtained from both English textbooks about the frequency of vocabulary items, the range of words across the books, and their recycling rates. The results of two different corpora of textbooks are compared to analyze their authentic use of English language.

3.2. Instructional Materials Analyzed

3.2.1. Corpora of Two EFL Course Books

Two EFL corpora were compiled to analyze the data extracted from two different ELT textbooks.

The first book analyzed in the present research was *Headway Pre-intermediate Student's Book*. This traditionally-prepared textbook was written by Liz & John Soars and Paul Hancock. The book was published by Oxford University Press and the first edition of the book was printed in 1998. The fifth edition printed in 2019 was selected for this study. It was chosen because the book is published and used globally and it does not claim to be a corpus-informed textbook. While the new edition has been updated in terms of its methodology, text contents, integration of authentic language and digital resources, it is still a topic-based book.

The content of the book is claimed to be based on a well-balanced grammar and skills syllabus. The book is structured in 12 units. In each unit, there are six sections: grammar, vocabulary, reading-speaking, listening-speaking, everyday English, writing. (See table 1)

Unit 1	Content
Section 1	Grammar
Section 2	Vocabulary
Section 3	Reading-Speaking
Section 4	Listening-Speaking
Section 5	Everyday English
Section 6	Writing

Table 3.2.1a Headway Pre-intermediate, Unit 1 Content

The second book examined in this study was a textbook that claims to be corpus-informed, *Touchstone 3*, completing level A2 and entering B1 level of the Common European Framework of Reference for Languages (CEFR). *Touchstone 3* was written by Michael McCarthy, Jeanne McCarten, Helen Sandiford and was published by Cambridge University Press.

The content of Touchstone 3 is based on the North American English portion of the Cambridge International Corpus (currently known as The Cambridge English Corpus). This corpus contains multi-billion word data from different sources including written and spoken, British and American English to build a syllabus reflecting how people actually use English.

In the introduction of the book, it is claimed that authors found out the most useful and frequent grammar and vocabulary as well as typical communicative uses in everyday situations, spending years searching the Cambridge International Corpus. Therefore, the book is considered to contain reliable and authentic information for teachers and learners.

Touchstone 3 is structured in 12 units. In each unit, there are four sections: Lesson A, Lesson B, Lesson C and Lesson D. All of the lessons in different units mostly have similar content. (See table 3.2)

Unit 1	Content
Lesson A	Getting started, grammar, speaking naturally
Lesson B	Building vocabulary and grammar, grammar, listening and speaking, vocabulary
Lesson C	Conversation strategy, strategy plus, talk about it
Lesson D	Reading, listening, writing and speaking, free talk

Table 3.2.1b Touchstone 3, Unit 1 - Lesson Content

For the purposes of practicality and their representative property this study focused only on ‘reading spots’ of the books and the results were generalized to the whole book. That would be a reasonable decision given that there exists a strong relationship between vocabulary learning and reading practice, which forms the bulk of the classroom activities. In some classroom practices it could be observed that parts of the units like listening, writing and speaking are not prioritized as much as reading sections.

3.3. Data Collection Tools

3.3.1. Lextutor Program for Vocabulary Profile Analysis

Profiling lexical content of the two books was carried out using a corpus linguistics program called Compleat Lexical Tutor. Designed by Tom Cobb, the software has a collection of tools for researchers, teachers and learners to study vocabulary and to analyze texts in terms their lexical content. Compleat Lexical Tutor is free of charge and available on a website

(<http://www.lex tutor.ca/>). The present study attempts to research the use of most frequent words of English in two ELT textbooks, hence the use of such software allows us to upload our textbook content and identify the word frequency and recurrence rate of lexical items. Instructions on how to use the program are provided on the screen of various features selected.

To answer Research Question I, to find and compare vocabulary coverage in two different textbooks' content, Vocabulary Profiler Compleat tool within Compleat Lexical Tutor program was used. The tool reveals the complexity of texts by comparing them with the lists of high-frequency and academic English words incorporated in the program.

As a result of the comparison, an output file is generated. The results give us the percentage of the frequent and academic words in our corpus. The output file also shows which of the high-frequency and academic words are included in the textbook content. Words such as abbreviations, specialist vocabulary and proper nouns are named off-list in the output. Also, textbook words which do not appear in any of the lists are classified as off-list. Users are provided with concordance lines (contexts including certain words) based on the uploaded corpus on Compleat Lexical Tutor, too.

There are several word lists available within the program to compare your text with. These corpora are the Brown Corpus, the British National Corpus (BNC), the New General Service List (NGSL) and New Academic Word List (NAWL).

3.3.2. Vocabulary Profiler Tool and the Base Word Lists

A quantitative approach with content analysis design was used in this research. The data was analyzed with the help of lexical analyses using two different vocabulary profilers on Lextutor, an online lexical analysis software accessible at <http://www.lex tutor.ca/>.

To answer Research question I, *Vocabulary Profiler Compleat* (VP-Compleat) was used. It freely gives users access to classify the vocabulary items in the textbook into frequency levels.

To perform lexical analyses, VP Compleat tool makes use of several high-frequency lists that serve as *base lists* such as *New General Service List (NGSL)* (Browne et al, 2013) and *New Academic Word List (NAWL)* (Browne et al, 2013). They contain well-established, comprehensive and up-to-date high-frequency lists of English and Academic English words.

New General Service List is an updated version of the West's (1953) General Service List (GSL). NGSL was prepared based on a larger (273 million-word subsection of the 2 billion word Cambridge English Corpus) corpus with a better coverage (Browne et al, 2013). With the creation of NGSL the coverage rate of GSL (84%) rose to 92%. The high NGSL coverage level in any text means that learners can comprehend most of the vocabulary in many general English texts.

Coxhead developed the Academic Word List (AWL) consisting of 570 word families that are frequently included in academic texts. The NAWL is a list different from that of Coxhead's. Developed by Culligan, Phillips and Browne (2013), NAWL contains nearly 960 words taken from a 288 million word corpus including the contents of academic course books and academic lectures. It was created as an extension of the NGSL and the combination of these two up-to-date lists gives a comprehensive coverage of the most common English words. These reference word lists are available within the program along with their inflected forms and the headwords.

The NGSL-1 consists of the most common 1000 words that appear in a given English text. The NGSL-2 words include second most common 1000 English words and they are found less frequently in a text. Thus, NGSL-1 words may be considered as easier to understand and more frequent when compared with NGSL-2 words. The most common words in academic texts are given in the New Academic Word List (NAWL).

VP-Compleat tool containing those base word lists are used to identify which words in the textbooks belong to the most frequent 1000 English words (NGSL-1) and 2nd most frequent 1000 English words (NGSL-2) in the study. The total number of the words in the New Academic Word List (NAWL) in the books was researched as well as off-list words in the textbook which do not appear in any of the NGSL and NAWL.

The website offers many different tools helping to learn and analyze vocabulary. Among these tools on Lextutor, *Vocabulary profiler* and *Frequency* tools were used for lexical profiling and lexical frequency analyses for the present research.

By selecting the 'VocabProfile' section, the lexical profile analysis tools can be accessed. There are three profilers on the VocabProfile page: VP Classic, VP-kids, and VP-Compleat.

VP-Compleat is the most-recently developed vocabulary profiler that gives more precise results about lexical frequency of the words. Therefore, it was chosen for the lexical content analysis in this study.

On Lextutor website, overall lexical profile of the text is also presented by giving the proportions of vocabulary as lemmas (when a headword occurs with its inflected forms and they are counted as single), types (when a word is repeated more than once in a context, but counted only once) and tokens (when every word in a text is counted separately even if they are repeated).

3.3.3. Frequency Tool on Lextutor

To answer Research Question III, 20 words with different frequency levels were selected from the most frequent 2000 words of English (NGSL1 and NGSL2). Lexical frequencies of these 20 words were compared with the frequency ordering of the words in the lists NGSL1 and NGSL2 by using the *Frequency* tool found on the website Lextutor. This tool reveals the frequency of each word within a text and lists them in the order of their recurrence rate from the most used to the least used..

A frequency list of all the words in the text is created in the output file. It also gives the rank order of the vocabulary items, their frequency figure (how many times they appear within the text) and cumulative percentage of their frequency.

3.4. Data Collection Procedure

3.4.1. Preparing the Texts for the Vocabulary Profile Analysis

Headway Pre-intermediate Student's Book and Touchstone 3 Student's Book are the sample textbooks selected for vocabulary profile analysis. Reading spots in two textbooks were the focus of this study. Since this study sampled two textbooks, comparing reading spots of a conventional textbook with reading texts in a corpus-informed textbook could give us sufficient results to have an idea on their vocabulary content. Vocabulary load analysis was done in the reading spots of the whole book based on the 2000 high frequency words of New General Service List (NGSL1 and NGSL2) and New Academic Word List (NAWL).

Reading texts were extracted from all of the units in the books considering that they would represent the whole textbook. However, Headway Pre-intermediate Student's Book consists of longer reading texts. In order to compare equal number of words from the two books, nearly 300 words from each unit were taken equaling to almost 3700 words in total in each book.

The textbooks were in pdf file format. Therefore, the first step of preparing the texts was transforming pdf files to word documents using Abby Fine Reader version 14.0. Abby Fine Reader is a PDF transformer program. However, during this process there were problems with some parts due to the illustrations on the pages or page formats. Therefore, a few parts of the reading spots were written by hand on Microsoft word program. The texts had to be revised and prepared for the analysis after completing transforming and writing process. It was done in order to obtain more reliable results with the vocabulary profiler tool.

Firstly, the texts were checked for the spelling mistakes and corrected. The tool VP-Compleat requires an empty space after each punctuation mark to run smoothly. Including missing spaces was the second step in the text revision process.

It's good to have family, friends, and a partner. But you can't always be in the company of others, so it helps if you can really enjoy your own company and feel confident on your own.

So, where are you on the scale of dependence and independence? This quiz will help you find out! In a group, can you express an opinion that all the others disagree with strongly?

a) No, because I don't like feeling that I'm not part of the group.

b) Yes. I enjoy being the one with a completely different view on things.

c) Yes. I find it difficult to do, but I can't say anything.

Table 3.4.1a The Original Extract from the Headway Pre-intermediate - Unit 2

As can be seen in Table 3.4.1a and 3.4.1b, thirdly, words in short forms were changed into long forms.

It is good to have family, friends, and a partner. But you cannot always be in the company of others, so it helps if you can really enjoy your own company and feel confident on your own.

So, where are you on the scale of dependence and independence? This quiz will help you find out! In a group, can you express an opinion that all the others disagree with strongly?

- a) No, because I do not like feeling that I am not part of the group.
- b) Yes. I enjoy being the one with a completely different view on things.
- c) Yes. I find it difficult to do, but I cannot say anything.

Table 3.4.1b The Modified Text from the Headway Pre-intermediate - Unit 2

As can be seen in Table 3.4.1c and 3.4.1d, proper names were deleted from both of the textbooks in the next step.

Alicia Keys – Pianist and singer-songwriter

Alicia Keys was born and raised in New York. She started playing the piano at the age of five. Her mother was very supportive and always encouraged Alicia to continue playing. She got excellent grades in high school and graduated at the age of 16. A versatile performer, Alicia released her first CD when she was 19. She wrote one song on the CD when she was 19. Her secret talent? She is good at swimming.

Table 3.4.1c The Original Extract from Touchstone 3 - Unit 1

..... – Pianist and singer-songwriter

..... was born and raised in She started playing the piano at the age of five. Her mother was very supportive and always encouraged to continue playing. She got excellent grades in high school and graduated at the age of 16. A versatile performer, released her first CD when she was 19. She wrote one song on the CD when she was 19. Her secret talent? She is good at swimming.

Table 3.4.1d The Modified Text from Touchstone 3 - Unit 1

Eliminating the instruction parts was the last step of the preparation process since this study focused directly on the reading spots.

The modified texts of two course books were saved on separate word documents. And then they needed to be copied into the tools *Vocabulary Profiler Compleat* and *Frequency in sequence* for analysis on Lextutor website.

3.4.2. Vocabulary Profile Analysis

The vocabulary load analysis of the textbooks was done in terms of the frequency of the vocabulary items. The texts from both course books were ready in separate documents as word-files. Only 'reading spots' of the textbooks were taken and revised to get more accurate results.

Firstly, *VP-Compleat tool* was used to analyze the coverage of high-frequency words in both course books. Instructions are given in the white space that is used for feeding the text into the profiler. The text in word-file format can be copied and pasted in the space after deleting the instructions.

Contents of textbooks were copied and pasted on the VP-Compleat tool's website after being revised. There are different high-frequency word lists within the program that are used as base lists. For this study, NGSL and NAWL were selected because they reflect comprehensive and updated common English words. The output of the analysis is presented after choosing the base lists and clicking on 'Submit Window' button. The output provides information about the number and percentage of lexical items contained in each base list.

All the reading spots of *Touchstone 3* were profiled as a whole and the same process was repeated for the reading spots in *Headway Pre-intermediate Students' Book*.

The result of the analysis shows the percentage and the number of the most frequently used words: NGSL-1, NGSL-2, NGSL-3 and NAWL in the course book and off-list words. The output file reveals which of the high-frequency and academic words are included or which words do not belong to any of these lists. This gives us an idea about the complexity and efficiency of the course books.

Lemmas, types and tokens are given in the first row of the output file. Headwords in a text are lemmas, for instance: the headword of *information* and *informing* is *inform*. Different words are types, for example: *speak* and *speaking* are counted as different words. Token is the total number of words in a text, for instance: if the text includes the words common (2), take (3) and people (1), the number of tokens is 6. Numbers under these headings assert how many words in the text belong to each of these categories.

Different frequency levels are given in the first column of the output file. The words in the texts are grouped according to their frequency levels as *NGSL-1* (the most frequent 1000

words), *NGSL-2* (second most frequent 1000 words), *NGSL-3* (third most frequent 1000 words) and *NAWL* (the most common Academic words of English) and off-list words that do not belong to any of these categories.

In this study, the main aim was to compare the proportion of the most frequent English words from different aspects. Therefore, the results were used to answer Research Question I, which aimed to compare coverage levels of high-frequency words in two ELT textbooks.

In addition to the lexical frequency figures, VP-Compleat tool shows some related ratios and indices in the output file. For this study, type-token ratio (TTR) is taken into consideration. TTR is obtained when the total number of word types is divided by the total number of tokens. The result is a number that falls within 0 and 1. It allows the researcher to see to what extent the words in the textbook are repeated, which is the answer to the Research Question III.

3.4.3. Selection of 20 Words from the 2000 High Frequency Word Lists

The present study focuses on the vocabulary profiles of two ELT textbooks based on the most frequent 2000 words of English. A set of 20 randomly sampled words with their inflected forms was taken from *NGSL-1* and *NGSL-2* to answer the Research Question III, which aimed to find out to what extent the frequency of 20 randomly selected words in two textbooks reflected their *NGSL* based frequency ordering. The words were chosen from both *NGSL-1* and *NGSL-2* to increase the validity of the results.

In the selection process the list standings of the words were the main criteria. The words were selected within a certain distance on the list between each other i.e. It was made sure that there was min. 46 and max. 141 words between two words selected. To illustrate this we can take two selected words *make* and *home* as examples. The list standing of the word *make* is 48 and it falls within the range 0-100 most frequent words. The other word *home* stands as the 161th word on the frequency list. The distance between two is 113 words.

NGSL words & their frequencies	Inflected forms
1. make (48)	made, makes, making
2. home (161)	homed, homes, homing
3. buy (242)	bought, buying, buys
4. reach (380)	reached, reaches, reaching
5. shop (437)	shopped, shopping, shops
6. listen (573)	listened, listening, listens
7. forget (651)	forgets, forgetting, forgot, forgotten
8. marry (775)	married, marries, marrying
9. suffer (837)	suffered, suffering, suffers
10. maintain (942)	maintained, maintaining, maintains
11. hang (1083)	hanged, hanging, hangings, hangs, hung
12. quick (1193)	quicker, quickest
13. trend (1279)	trended, trending, trends
14. usual (1383)	-
15. afford (1486)	afforded, affording, affords
16. unique (1592)	-
17. faith (1684)	faiths
18. multiple (1730)	multiples
19. bother (1842)	bothered, bothering, bothers
20. rural (1961)	-

Table 3.4.3 20 Randomly Selected Words from the 2000 High Frequency Words

Lastly, Excel software was used to form the graphs based on the output files obtained from VP-Compleat and Frequency tools to draw conclusions.

CHAPTER IV

4. FINDINGS

To answer Research Question I, the first part in each section presents the overall profile of vocabulary coverage of the textbook by showing the proportions of vocabulary from different frequency levels. Cumulative proportions of their vocabulary profile are given, too. Each course book was examined separately by using *VP-Compleat tool* on Lextutor to get these results.

In the first part type-token ratios of two books were also examined. These ratios are presented within the output of the same tool, *VP-Compleat*. Type-token ratios were used to compare the recycling rate of the books, which revealed the answer to Research Question II.

To answer Research Question III, the second part of each section demonstrates the comparison of recurrence rates of 20 randomly-selected words in two ELT textbooks. These words were selected from the 2000 high frequency words lists (NGSL1 and NGSL 2). *Frequency tool* on Lextutor was applied to each book separately to identify how many times those 20 words were repeated in each book as a whole.

4.1. Vocabulary Profile of the Corpus-informed Textbook, Touchstone 3

Investigating lexical load of two textbooks was the aim of the Research Question I. The first textbook examined, Touchstone 3, claims to be corpus-informed. In this part, vocabulary profile analysis of Touchstone 3 with *VP-Compleat tool* is presented.

Frequency Level	TYPES (%)	TOKENS (%)	CUMULATIVE TYPES (%)
NGSL-1 WORDS	702 (57.6%)	2964 (80.4%)	57.6 %
NGSL-2 WORDS	202 (16.6%)	287 (7.8%)	74.2%
NGSL-3 WORDS	95 (7.8%)	140 (3.8%)	82 %
NAWL	30 (2.4%)	38 (1.0%)	84.4 %
OFF-LIST	187 (15.3%)	256 (6.9%)	100
TOTAL	1217	3686	100

Table 4.1a VP-Compleat Output – Vocabulary Coverage of Touchstone 3

Table 8 shows the total number of types, tokens and their cumulative percentages according to frequency levels: NGSL-1, NGSL-2 and NGSL-3 in *Touchstone 3*. However, only the cumulative of the most common 2000 words (NGSL-1 and NGSL-2) is taken into consideration to answer Research Question I.

The total of common academic words and off-list words are also given in the same table. Academic words are the ones that are widely used in most of the academic texts. Words that do not appear in any of these frequency groups are classified as off-list in the table.

The statistics in Table 8 displays that in *Touchstone* 702 types (57.6%) out of 1217 are among the first 1000 high frequency words (NGSL-1). These words make up most of the vocabulary in the first textbook.

As can be seen in the table, the total of second 1000 most frequent words (NGSL-2) drops down to 202 (16.6%). There is a big difference between the coverage of NGSL-1 and NGSL-2 list words. When the coverage of NGSL2 words (16.6%) is added, the cumulative percentage of the word coverage becomes 74.2% in terms of types, which is taken as the basis in comparison of the vocabulary coverage of two books in the present study.

In Touchstone 3, the number decreases dramatically when it comes to the total of NGSL3 and academic words. As the third most common 1000 words are included in NGSL-3, its coverage is as low as 95types (7.8%) and the number of academic words is 30 (with coverage of 2.4%).

Another point to consider is the number and content of off-list words in the texts. In other words, they are used in the book, but these words are not among the most frequent 3000 words. Only a small number of infrequent words must be included in the textbook content. In Table 8, there are 187 (15.3%) off-list words that can be considered as low frequency lexical items. The number of off-list words is almost close to the number of NGSL-2 words.

Related Ratios and Indices	
Tokens	3686
Types	1217
Type-Token Ratio	0.33
Tokens per type	3.03
Lexical Density	0.57

Table 4.1b Type-token Ratio of Touchstone 3

In the output of VP-Compleat tool, type-token ratio (TTR) is displayed along with the lexical frequency figures. Table 9 shows the totals of types and tokens in the textbook content. Number of word types is divided by the total number of tokens to obtain TTR. The ratio allows us to identify the repetition **rate** of the text vocabulary, which is the answer to Research Question II.

TTR is displayed as a number that falls between 0 and 1. Whenthe total of types (1217) is divided by the total of tokens (3686), type-token ratio is 0.33 for Touchstone 3.

Result of type-token ratio is used to measure lexical diversity and recycling rate in a text. TTR was used to measure and compare the repetition of 20 randomly selected words in two textbooks in this research. A high TTR indicates increased lexical diversity whereas a low TTR shows that there are a great deal of repetitions.

4.2. Vocabulary Profile of the Traditionally-prepared Textbook, Headway Pre-intermediate

The aim of the first Research Question is to investigate the lexical load of two textbooks. The second textbook examined, Headway Pre-intermediate, is traditionally-prepared. Vocabulary profile analysis of Headway Pre-intermediate with VP-Compleat tool is presented in this part.

Frequency Level	TYPES (%)	TOKENS (%)	CUMULATIVE (%)
NGSL-1 WORDS	663 (66.1%)	3104 (86.6%)	66.1%
NGSL-2 WORDS	162 (16.1%)	225 (6.3%)	82.2%
NGSL-3 WORDS	73 (7.2%)	120 (3.3%)	89.4%
NAWL	12 (1.2%)	13 (0.4%)	90.6%
OFF-LIST	92 (9.1%)	122 (3.4%)	100
TOTAL	1003	3585	100

Table 4.2a VP-Compleat Output – Vocabulary Coverage of Headway Pre-intermediate

The statistics in Table 10 gives the total number of types, tokens and cumulative percentages based on frequency levels: NGSL-1, NGSL-2 and NGSL-3 in Headway Pre-intermediate Students' Book. Additionally, number of academic and off-list words is presented in the table.

The total number of types within NGSL-1 category is 663 (66.1%) out of 1003, which makes up most of the vocabulary items in the second book, Headway Pre-intermediate. The coverage of first 1000 most frequent words of English is higher here than the first textbook examined. The total of second 1000 most frequent words (NGSL-2) drops down to 162 (16.1%) as it can be seen in the table 10. The percentage of the types in NGSL-2 list is much lower when compared to NGSL-1. The cumulative percentage of the word coverage becomes 82.2% when the coverage of NGSL-2 words (16.1%) is added. While the proportion of NGSL-2 words

is lower in this book, the total of NGSL-1 and NGSL-2 (82.2%) cumulative is still higher than Touchstone 3 (74.2%). In the present research, total percentage of 2000 high frequency words (82.2%) is taken into consideration to compare the lexical load of two books.

In the second textbook, Headway Pre-intermediate, the number of types in NGSL-3 list is 73 (with coverage of 7.2%) and the number of academic words is 12 (with coverage of 1.2%). When it comes to off-list category, there are 92 types (9.1%) in Headway Pre-intermediate, which is lower than the low frequency words in Touchstone 3.

Related Ratios and Indices	
Tokens	3585
Types	1003
Type-Token Ratio	0.28
Tokens per typ	3.57
Lexical Density	0.50

Table 4.2b Type-token Ratio of Headway Pre-int.

As can be seen from Table 11 the number of types is 1003 and the total of tokens is 3585 in the second textbook (Headway). In order to answer Research Question II and see the recycling rate of the vocabulary items, types are divided by tokens to get type-token ratio. The ratio is 0.28 in Headway Pre-intermediate, which is lower than Touchstone 3.

4.3. Frequencies of Randomly Selected NGSL Words in two Textbooks

A set of 20 randomly selected words from 2000 corpus frequency band (NGSL) was examined along with their inflected forms in order to find their frequency values and to discover to what extent their frequency of occurrence reflect corpus-based frequency ordering. To increase the validity of the results, the words were chosen from both NGSL-1 and NGSL-2.

NGSL words & their corpus frequencies	Inflected forms	Their frequency in Headway	Their frequency in Touchstone
1. make (48)	made, makes, making	5	10
2. home (161)	homed, homes, homing	5	2
3. buy (242)	bought, buying, buys	0	3
4. reach (380)	reached, reaches, reaching	1	2
5. shop (437)	shopped, shopping, shops	1	2
6. listen (573)	listened, listening, listens	0	0
7. forget (651)	forgets, forgetting, forgot, forgotten	1	1
8. marry (775)	married, marries, marrying	0	1
9. suffer (837)	suffered, suffering, suffers	0	0
10. maintain (942)	maintained, maintaining, maintains	0	0
11. hang (1083)	hanged, hanging, hangings, hangs, hung	0	0
12. quick (1193)	quicker, quickest	0	0
13. trend (1279)	trended, trending, trends	0	0
14. usual (1383)	-	1	0
15. afford (1486)	afforded, affording, affords	0	0
16. unique (1592)	-	0	0
17. faith (1684)	faiths	0	0
18. multiple (1730)	multiples	0	0
19. bother (1842)	bothered, bothering, bothers	0	0
20. rural (1961)	-	0	0

Table 4.3 Frequency of Randomly Selected Words from 2000 High Frequency Word List

Table 12 shows the frequencies of randomly selected words with their inflected forms in the lists NGSL-1 and NGSL-2 and how many times they are repeated in total in each textbook.

Coverage and repetition of the words from NGSL-1 group is higher than NGSL-2 group in both books and the recycling rate of the words drops as their list standings decreases. For instance, out of 10 randomly selected NGSL-1 words, 5 of them are covered in Headway Pre-intermediate and 7 of them are represented in Touchstone 3. Also, out of 10 randomly selected NGSL-2 words, 1 one of them is covered in Headway Pre-intermediate and none of them are represented in Touchtone 3.

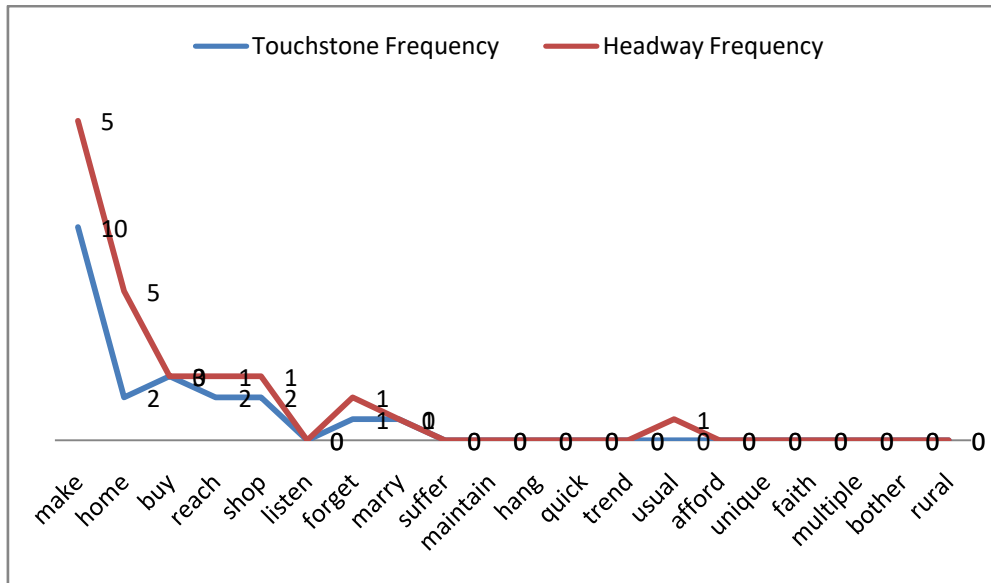


Figure 4.3 Frequencies of 20 NGSL Words in Two Textbooks

As may be observed in Figure 2, recycling rate of 20 random words from 2000 most frequent words drops corresponding to their standings further down on the NGSL list, which means that the item is less frequent.

Among randomly chosen 10 NGSL-1 words, almost half of them are covered in both textbooks and coverage of 10 random NGSL-2 words is not high enough to mention. Most of the randomly selected NGSL-2 words are not included in both Headway Pre-intermediate and Touchstone 3.

CHAPTER V

5. RESULTS, DISCUSSION AND RECOMMENDATIONS

5.1. Results and Discussion

5.1.1. Vocabulary Load of Two Textbooks

This corpus-based study investigated and compared load of high frequency lexical items in two EFL textbooks. To conduct the study, course books' content were analyzed by using the most frequent 2000 words of NGSL and NAWL as reference lists. Vocabulary Profiler Compleat tool on Lextutor website was used as the instrument for the analysis of the lexical profiles. The first research question addressed in this study is:

➤ What is the coverage level of the most frequent 2,000 words of NGSL in a corpus-informed book (*Touchstone Level 3 Student's Book*) and a conventional course book (*Headway Pre-intermediate Level Student's Book*)?

Frequency Level	Touchstone Types (%)	TOUCHSTONE CUMULATIVE (%)	Headway Types (%)	HEADWAY CUMULATIVE (%)
NGSL-1	702 (57.6%)	57.6 %	663 (66.1%)	66.1%
NGSL-2	202 (16.6%)	74.2%	162 (16.1%)	82.2%
NGSL-3	95 (7.8%)	82 %	73 (7.2%)	89.4%
NAWL	30 (2.4%)	84.4 %	12 (1.2%)	90.6%
OFF-LIST	187 (15.3%)	100	92 (9.1%)	100
TOTAL	1217	100	1003	100

Table 5.1.1 Comparison of Vocabulary Load in Two Textbooks

The analysis of vocabulary in the corpus-informed textbook, Touchstone 3, revealed that 1000 most frequent words (NGSL-1) occur with high frequency in the course book. More than half of the lexical items (57.6%) in the corpus-informed book, Touchstone 3, belong to NGSL-1 word list (See table 13). While the percentage of types in NGSL-1 list is 57.6% in the corpus-informed course book (Touchstone 3), it increases to 66.1% in the traditionally-prepared textbook (Headway Pre-intermediate).

The proportion of second most frequent 1000 words (NGSL-2) is 16.6% in Touchstone 3. The percentage decreases for NGSL-2 words in this corpus-informed textbook as they are used less frequently in most English contexts. Also because the textbook examined is at pre-intermediate level, only a reasonable number of NGSL-2 list words may be included in its content.

With the addition of NGSL-2 words (16.6%), vocabulary coverage cumulative for types rises to 74.2% in the corpus-informed book (See table 13). Two textbooks were compared based on this percentage as it gives the total coverage of most common 2000 thousand words of English. Using the frequency information as a basis in the comparison of textbooks can provide crucial information on their authenticity and efficiency. Schmitt and Schmitt (2012) maintain that the knowledge high frequency words is required in the first place in order to understand English to a large extend. Therefore, textbooks giving sufficient coverage of these frequent words may be considered more authentic.

The percentage showing the vocabulary load of 2000 most frequent words (74.2%) in Touchstone 3 is below the necessary level for understanding the texts well enough. Hirsch (2003) states that for good comprehension of a text 95% of the words should be understandable to the learner. Based on this fact, it can be said that a learner must also have the knowledge of NGSL-3 and academic words to some extent. That is, learners must also have the knowledge of less frequent words of English (words that are not among 2000 high frequency vocabulary). However, when the number of words that fall within NGSL-3 and Academic Word categories is high, it can cause difficulty in comprehension for learners.

In this textbook, Touchstone 3, the number of types within NGSL-3 list is 95 (with coverage of 7.8%) and there are 30 academic words (with coverage of 2.4%), which would not cause difficulty in understanding the texts. Also, because the number of words in NAWL list is quite low, they do not have to be removed from the book (See Table 14).

Another point to consider is the number and content of off-list words in the texts. The number of these low frequency words must be small enough to be ignored. In Table 13, there are 187 (15.3%) off-list words that are classified as low frequency lexical items, which is almost close to the number of NGSL-2 words and it is above the desired level for good comprehension. Therefore, the number of off-list words is expected to be more limited, especially for a textbook at Pre-intermediate level.

In Touchstone 3, the cumulative of the types apart from NGSL-1 and NGSL-2 lists is 25.8%. That is, approximately 26% of the types in the book are not among 2000 high frequency words of English.

In most of the previous research, studies analyzing the vocabulary profile of textbooks demonstrated very similar results in terms of the coverage of words from different frequency levels. It was identified that the higher the frequency of a word, the higher their coverage is in the textbook.

Similarly, Ünlü (2012) examined a traditional EFL textbook (Spot-On, Grade-8) in terms of its loading, distribution, and repetition patterns of the 2000 most frequent words of English. She concluded that most of the types (67.6%) included 1000 high frequency words. The percentage of second most frequent 1000 words was 15% and also the textbook included 6% academic words and 11% off-list words in her study.

Alhudithi (2017), likewise, carried out a corpus-based analysis of the vocabulary input in 12 textbooks used in Saudi Arabia. The researcher concluded that the highest number of lexical items covered in the book were from 1000 most frequent English words. The percentage of words in the other frequency levels were much lower than K-1 group, which shows that infrequent words were limited in the course books analyzed.

The statistics in Table 13 show that in Headway Pre-intermediate, the percentage of the types that fall within NGSL-1 group is 66.1%, which is higher than Touchstone 3 (57.6%). Since NGSL-1 includes the most frequently used 1000 words, it can be expected that this group of words are used more commonly than other frequency groups in the textbooks. That is, in Headway Pre-intermediate Students' Book, the first 1000 high-frequency words make up more than half of the lexical items similar to Touchstone 3.

Counterintuitively, as a conventional course book, Headway Pre-intermediate gives a better coverage of the most frequent vocabulary of English (NGSL-1) although it is a traditionally-prepared textbook.

The percentage of the second most frequent 1000 words (NGSL-2) is 16.1% in Headway Pre-intermediate (See table 13). The proportion of NGSL-2 group is much lower when compared to NGSL-1 list coverage (66.1%) as NGSL-2 group of words are not used as commonly as NGSL-1 list. Also because the inclusion of more of these words is more appropriate for textbooks at higher levels than pre-intermediate.

The proportion of NGSL-2 types in Headway Pre-intermediate (16.1%) is not much different from the proportion of NGSL-2 words in Touchstone 3 (16.6%). In fact, their percentage is almost the same in both textbooks.

Similar to Touchstone 3, the lexical coverage of NGSL-2 types decreases in Headway Pre-intermediate as they are less frequently used words of English. Also because in a pre-intermediate level textbook, only a limited number of second most frequent 1000 words (NGSL-2) can be covered.

In Headway Pre-intermediate, vocabulary coverage reaches 82.2% with the addition of NGSL-2 words (16.1%), which is closer to the desired level for a good comprehension of the texts than Touchstone 3.

For good comprehension of the text over 90% of the words should be understandable to the learners. Considering this fact, it can be assumed that learners must have knowledge of NGSL-3 and academic words to some extent. However, when the number of words that fall within NGSL-3 and academic word categories is not limited, learners may have difficulty in comprehension.

In the second textbook, Headway Pre-intermediate, the number of NGSL-3 words is 73 (with a coverage of 7.2%) and the number of academic words is 12 (with a coverage of 1.2%), which may be considered as appropriate for learners at this level. Furthermore, including a limited number of academic words at the pre-intermediate level could be a good preparation for the next level.

When it comes to off-list category, there are 92 words (9.1%) in Headway Pre-intermediate, which is lower than the proportion low frequency words in Touchstone 3. However, it can be still smaller for a good comprehension of the texts.

In Headway Pre-intermediate, the cumulative of the types apart from NGSL-1 and NGSL-2 lists is 17.8%. That is, approximately 18% of the types in the book are not among 2000 high frequency words of English.

Findings of vocabulary profile analysis of Headway Pre-intermediate are in line with the research by Milton and Alsaif (2012). Their study also found that most of the vocabulary input included in the textbook was from 2000 most frequent words of English. However, its vocabulary coverage rate was a bit higher in the study of Milton and Alsaif (2012) since it depends on the level of the book examined. In a similar study, Mukunkan and Aziz (2009) observed that most of the Malaysian English Language Textbooks include the most frequent 2000 words of English in their content to a large extent. Thus, it can be assumed that learners are expected to be familiar with high-frequency words of English in different contexts and parts of the world.

To summarize, vocabulary content of a corpus informed textbook (Touchstone 3) and a traditionally-prepared textbook (Headway Pre-intermediate) were analyzed in terms of their lexical frequency profile to answer the first Research Question in the present study. Lexical content of the course books were compared against 2000 high frequency vocabulary of English by using NGSL-1 and NGSL-2 base word lists as reference.

Frequency analysis of vocabulary load in texts provides us with invaluable information as to whether the content suits learners' lexical needs at given proficiency level. It also gives us the opportunity to check the efficiency of the book as regards its lexical content as it allows us to see whether there is a systematic and balanced vocabulary selection behind. According to Horst (2013), frequency-informed decisions must be the basis in vocabulary teaching and selection.

Furthermore, vocabulary load analysis provides crucial implications for checking the variety and complexity of words. Using corpus software to analyze lexical frequency is a practical and effective way of understanding how authentic the content is since high frequency is associated with more authentic English. It is argued by Reppen (2012) that "if a feature is very common, and is used by fluent native speakers of English, then we should certainly teach

that feature to learners” (p. 14). Nation (2001) also emphasizes that learning 2000 high-frequency words can be sufficient to comprehend most of the different types of texts in English.

Along with many studies, it has been demonstrated in this research that percentage of lexical coverage in the textbooks increases for the words with higher frequency. Alhudithi (2017) claims that 2000 high frequency words appear more commonly in English contexts and their lexical coverage make up the biggest amount of the textbooks’ content.

In this study, although vocabulary content of Touchstone 3 and Headway Pre-intermediate textbooks showed similarity in terms of presenting 2000 most frequent words in most of their content, they differed in the proportion of the high frequency vocabulary covered. For the comparison, Headway was selected as a traditionally-prepared textbook and Touchstone 3 was chosen as a corpus-informed book.

Despite being a conventional textbook, Headway Pre-intermediate gives a higher coverage of 2000 high frequency words. To be more precise, the cumulative percentage of types in NGSL-1 and NGSL-2 lists is 74.2% in the corpus-informed course book (Touchstone 3) whereas it increases to 82.2% in the traditionally-prepared textbook (Headway Pre-intermediate). Since there is no study found comparing the lexical content of a conventional textbook with a corpus-informed textbook, results could not have been compared with a reference research in this regard.

Possible reasons for the difference in their coverage of high frequency words between two textbooks could be:

✚ Headway textbook series have been available for longer time and used more commonly than Touchstone series worldwide. Therefore, more feedback on its content may have been collected to update and adapt the book accordingly.

✚ Another reason could be that 5th edition of Headway was analyzed and it is a more recently published book than Touchstone 3. Thus, vocabulary content in the reading spots of the book might have been arranged according to more up-to-date topics.

✚ Apart from Touchstone series, there are hardly any books that claim to be corpus-informed worldwide. As the use of corpus for textbook preparation is a very rare practice among publishers, vocabulary content of them may not have been designed in a way that reflects authentic English sufficiently.

On the other hand, there is a big difference in the proportion of NGSL-1 and NGSL-2 words included in ELT textbooks depending on the level of the book. The proportion of lexical items from NGSL-2 list is much lower in the textbooks at elementary or pre-intermediate levels; however, its percentage increases as the level of the book gets higher (textbooks at intermediate or higher level include bigger amount of vocabulary).

Coverage of NGSL-3, academic and off-list words in a textbook at pre-intermediate level can be considered as its content of low frequency words. With that being given, approximately 26% of the types in Touchstone 3 and almost 18% of the types in Headway Pre-intermediate are among the low frequency vocabulary. Presenting fewer less frequent words may be viewed as strength of Headway in this regard. As the percentage of infrequent words is not low enough, the results reveal that vocabulary selection process in both books are not very systematic and the coverage of 2000 high frequency words may be increased in both textbooks.

5.1.2. Recycling Rate of High Frequency Words in Two Textbooks

This corpus-based study aimed to discover and compare recycling rate of 2000 most frequent words of English in a corpus-based and traditionally-prepared textbook with Research Question II. In order to obtain the recycling rate of vocabulary in two textbooks Vocabulary Profiler Compleat and Frequency tools on Lextutor website was utilized as the instrument. The second Research Question addressed in this study is:

2. What is the recurrence rate of high frequency words in a corpus-informed and a traditionally prepared course book?

Firstly, the output of VP-Compleat tool was used for obtaining recycling rate of vocabulary in textbooks as it displays the type-token ratio (TTR) for each textbook. The number of tokens and types in the textbook content was given in the output and the type-token ratio was calculated automatically by the tool. Total number of all the different words in a text (types) is divided by the total number of all the words (tokens) to obtain its type-token ratio. TTR is a number that falls within 0 and 1. It allows the researcher to see to what extent the words in a text are repeated. A low TTR shows that there is a great deal of repetitions whereas a high TTR indicates words are not recycled sufficiently.

Recycling is an important aspect of vocabulary learning. Folse (2004) states that multiple exposures are necessary for moving the new words from short term memory to long

term memory. Cobb (1999) supports this view stating that learners must encounter new words in a variety of contexts in order to recall and use them flexibly.

Related Ratios and Indices	Touchstone 3	Headway Pre-int.
Types	1217	1003
Tokens	3686	3585
Type-Token Ratio	0.33	0.28
Tokens per type	3.03	3.57
Lexical Density	0.57	0.50

Table 5.1.2a Comparison of Recycling Rates of Two Textbooks

When the total of types (1217) is divided by the total of tokens (3686), type-token ratio is 0.33 for the corpus-informed textbook, Touchstone 3. As can be seen from Table 5.1.2a the number of types is 1003 and the total of tokens is 3585 in the traditionally-prepared textbook, Headway Pre-intermediate. In order to answer Research Question II and see recycling rate of the vocabulary items, types are divided by tokens to get type-token ratio. The ratio is 0.28 in the traditionally-prepared textbook, Headway Pre-intermediate.

When the recycling rate is lower, it indicates higher repetition of the vocabulary. Type-token ratios of both textbooks are below 0.5 and close to 0. In other words, repetition of vocabulary in both course books is not very low. However, despite being a traditionally-prepared textbook, TTR of the vocabulary in Headway (0.28) is higher than TTR (0.33) of the words in Touchstone, which indicates that repetition of lexical items in Touchstone 3 is lower.

Counterintuitively, as a conventional course book, Headway Pre-intermediate gives a higher recycling rate than the corpus-informed textbook (Touchstone 3). Possible reason behind this result could be that the use of Headway for teaching English is more widespread globally when compared to Touchstone 3, which can lead to presenting better content after years of updating and improvement. The fact that there are hardly any books globally that claim to be corpus-informed may be another reason behind the lack of sufficient reflection of high frequency words in Touchstone 3. Since the use of corpus for textbook preparation is not a

common practice among publishers, lexical content of them might not have been designed in a way that reflects authentic English sufficiently.

Studies on recycling of vocabulary input in textbooks identified that learners are not given enough opportunities to repeat newly introduced words. For instance, Tomlinson (2008) and Dat (2008) maintain that repetition of lexical items is overlooked in spite of the amount of vocabulary activities provided in textbooks.

Nation (2001) emphasizes the importance of recycling by stating that repetition of words helps learners to deepen their knowledge and understanding of them along with increasing chance of learning the vocabulary: “repetition is essential for vocabulary learning because there is so much to know about each word that one meeting with it is not sufficient to gain this information, and because vocabulary items must not only be known, they must be known well so that they can be fluently accessed.” (p. 76)

Alfotais (2012) also considers recycling crucial by saying that “the ability to better memorize a word comes hand in hand with the number of times this word has been recycled” (p. 20).

After checking the type-token ratios of both textbooks to examine the recurrence of the words, frequency values of all the types in the books were analyzed with the help of *Frequency* tool on Lextutor. The output of this tool gives all the types of in the textbook and how many times each type is repeated in the book.

Frequency Values	Cumulative Coverage Touchstone 3	Cumulative Coverage Headway Pre-int.
10 and above	4.3%	5.3%
5-10 occurrences	4.5%	6%
3-5 occurrences	10.8%	10.5%
2 occurrences	17.2%	16.1%
1 occurrence	62.8%	61.8%

Table 5.1.2b Comparison of Each Frequency Coverage in Two Textbooks

As can be seen in Table 15, for the corpus-informed textbook, Touchstone 3, result of the frequency values obtained from Frequency tool is as follows.

Out of 1217 types:

- ❖ 53 types (4.3%) are repeated 10 and more times.
- ❖ 57 types (4.5%) are recycled between 5-10 times.
- ❖ 132 types (10.8%) are repeated between 3-5 times.
- ❖ 210 types (17.2%) are recycled twice.
- ❖ 765 types (62.8%) have just 1 frequency. They are not repeated in the reading spots.

In conclusion, total proportion of types with 5 or more frequencies is 8.8% in the corpus-informed textbook.

The result of the frequency values obtained from Frequency tool for the conventional textbook, Headway Pre-intermediate, is as follows. Out of 1003 types:

- ❖ 54 types (5.3%) are repeated 10 and more times.
- ❖ 61 types (6%) are recycled between 5-10 times.
- ❖ 106 types (10.5%) are repeated between 3-5 times.
- ❖ 162 types (16.1%) are recycled twice.
- ❖ 620 types (61.8%) have only 1 frequency. They are not repeated in reading spots.

As a result, the total proportion of types with 5 or more frequencies is **11.3 %** in the conventional textbook.

It may be concluded from the frequency values in two textbooks that recycling of types in the traditionally-prepared textbook is slightly better than the corpus-informed textbook. To be more precise, in Touchstone, **62.8%** of the types are not repeated in the reading spots. The proportion of types with 1 frequency decreases to **61.8%** for Headway. That is, more than half of the types in both course books are not recycled. Nagy et al. (1987) states that accuracy cannot be over 5% in a multiple-choice question test if a word occurs with 1 frequency in a text. This result also suggests that both textbooks need improvement in terms of the recurrence rate of lexical items.

Recycling rate of the words can also be compared by considering the percentage of words with 5 or more frequencies in two textbooks because most exposure frequency studies suggest 5 repetitions as the lowest number required (Hwang & Nation, 1995; Saragi et al., 1978; Thornbury, 2002; Webb, 2007). For instance, in Touchstone **8.8%** of the types are recycled 5 or more times while in Headway the percentage of types with the same frequency is **11.3%**.

Nation (1990) claims that 5-16 exposures are necessary in order to learn new words while Özdem (2010) argues that even 5 repetitions are not enough to use the words effectively.

Proportion of the words recycled less than 5 times is 80% in Touchstone and 77.9% in Headway (see Table 15). Therefore, it may be asserted that learners are not presented with sufficient exposure opportunities in both textbooks to be able to acquire the words effectively.

In a study of vocabulary load and recycling in a conventional textbook, Ünlü (2012) demonstrated that 60% of the types were not repeated in the book and 9% of the lexical items were recycled 5 or more times. With results similar to this study the researcher concluded that the book contained “inadequate number of recycled words with insufficient frequency values” (p.82).

In another similar study Alhudithi (2017) observed that lexical items with 5 or more occurrences covered smallest percentage whereas words with fewer than 5 occurrences made up the largest proportion of the textbook. His research also indicated that “when more new words are introduced, there are fewer opportunities for repetition” (p.55).

The results of this study also demonstrated that lack of recycling may cause including more infrequent words in a textbook because learners would have a lot more words to acquire when the vocabulary is not repeatedly used. As a result, coverage of high frequency words in a context would decrease.

5.1.3. Frequencies of Randomly Selected Words in the Course Books

The aim of the third Research Question was exploring the repetition rate of 20 randomly chosen words in a corpus-informed and traditionally-prepared textbook and discovering to what extent their frequency of occurrence reflects corpus-based frequency ordering. The words were chosen from both NGSL-1 and NGSL-2 lists to increase the validity of the results.

The third question addressed in this study is:

3. What is the recycling rate of the randomly selected words in two textbooks?

3.1. To what extent does the frequency of occurrence of randomly selected words in two books reflect corpus-based frequency ordering?

NGSL words & their corpus frequencies	Their frequency in Headway Pre-int.	Their frequency in Touchstone 3
1. make (48)	5	10
2. home (161)	5	2
3. buy (242)	0	3
4. reach (380)	1	2
5. shop (437)	1	2
6. listen (573)	0	0
7. forget (651)	1	1
8. marry (775)	0	1
9. suffer (837)	0	0
10. maintain (942)	0	0
11. hang (1083)	0	0
12. quick (1193)	0	0
13. trend (1279)	0	0
14. usual (1383)	1	0
15. afford (1486)	0	0
16. unique (1592)	0	0
17. faith (1684)	0	0
18. multiple (1730)	0	0
19. bother (1842)	0	0
20. rural (1961)	0	0

Table 5.1.3a 20 Randomly Selected Words from the 2000 High Frequency Words

Table 16 shows the frequencies of randomly selected words with their inflected forms in NGSL-1 and NGSL-2 lists and their total repetition rate in each textbook.

In the traditionally-prepared textbook, Headway Pre-intermediate, 5 words are covered with different frequencies out of 10 NGSL-1 words. These are: make home, reach shop and forget. Only 1 word is included out of 10 NGSL-2 words. It is the word ‘usual’.

In total, out of 20 randomly selected words 14 of them are not included in Headway Pre-intermediate. It contains 6 random words with different frequencies and most of these are covered only once in this textbook. For instance, the words ‘reach’, ‘shop’, ‘forget’ and ‘usual’ occur once in the reading spots of the book. Also, the words ‘make’ and ‘home’ are repeated 5 times in total.

In the corpus-informed textbook Touchstone 3, 7 words are included with different frequencies out of 10 NGSL-1 words. These are: make, home, buy, reach, shop, forget and marry. None of the randomly selected 10 NGSL-2 words are covered in this book.

In total, out of 20 randomly selected words 13 of them are not included in Touchstone 3. It contains 7 random words with different frequencies. The words ‘forget’ and ‘marry’ are covered only once in the reading spots of the book. The rest of the words such as ‘make’, ‘home’, ‘buy’, ‘reach’ and ‘shop’ are repeated more than once.

Repetition and coverage and of 10 words from NGSL-2 group is lower than 10 words from NGSL-1 group in both books and the recycling rate of the words drops as their list standings decrease.

As can be seen in Table 16, the list standing of the word ‘make’ is 48 on NGSL-1 and it is the first word picked. The word ‘make’ is repeated 5 times in Headway Pre-intermediate and 10 times in Touchstone 3. Moreover, ‘make’ is the word with highest frequency value in both textbooks.

The other word ‘usual’ stands as the 1383th on NGSL-2. It occurs only once in Headway Pre-intermediate and it is not covered in Touchstone 3.

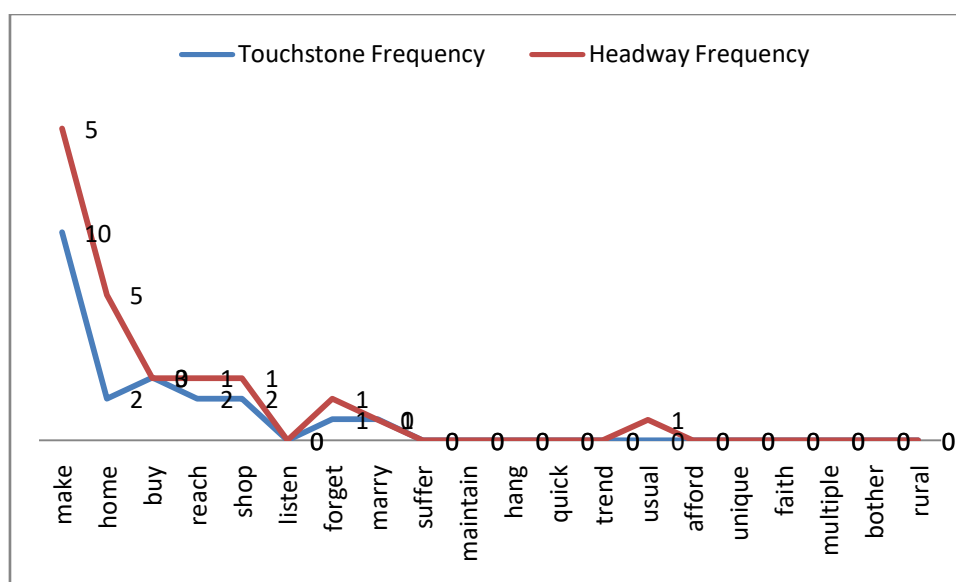


Figure 5.1.3b Repetition of Random NGSL Words in Two Textbooks

As may be observed in Figure 6, repetition rate of 20 random words from 2000 most frequent words drops as their standings in NGSL lists decrease.

10 words were chosen from the list NGSL-1, almost half of them are represented in both textbooks and the coverage of 10 random words from NGSL-2 list in the textbooks is too low to mention. Most of the randomly selected NGSL-2 words are not covered in both Headway Pre-intermediate and Touchstone 3.

In the corpus-informed book, Touchstone 3, approximately half of the randomly selected 20 words with their inflected words are recycled with varying values. In other words, their frequency is higher than 1 or 2 despite the fact that only reading spots were extracted from the whole book to discover the recycling of the randomly chosen words.

On the other hand, in the traditionally-prepared textbook, Headway Pre-intermediate, less than half of the randomly selected 20 words are covered just once within all the reading spots of the book and they are not recycled sufficiently. Most of the randomly chosen words with their inflected forms are covered only once in the traditionally-prepared textbook.

Third Research Question aimed to identify the repetition rate of the randomly selected words in a corpus-informed and traditionally-prepared textbook. Considering the results above, it may be concluded that there is a lack of systematic and sufficient recycling for the randomly selected 20 words in the traditionally-prepared textbook, Headway Pre-intermediate.

Nation (1990) states that new words must be recycled between 5-16 times in different contexts to provide learners with enough exposure for learning. It can be expected that some of the randomly chosen words may not be repeated more than 3 times in a limited context of reading spots of the course book, Headway Pre-intermediate. However, covering them only once doesn't give the learners enough opportunity for the required exposure frequency.

Corpus-informed textbook, Touchstone 3, seems to provide the learners with better opportunity in terms of recycling of 20 randomly chosen words. The number of words which are repeated more than once is higher in Touchstone 3 than Headway Pre-intermediate. However, repetition of the words may still be increased since recycling vocabulary more than 3 times is suggested in most studies. It is widely accepted that higher frequency values makes the recalling of words easier.

Second point examined in the Research Question III was to what extent randomly selected words' frequency of occurrence reflects corpus-based frequency ordering in a corpus-informed and traditionally-prepared textbook.

Widely used words of English are expected to have higher frequency values in both textbooks. Furthermore, their frequency of occurrence is expected to decrease corresponding to their standings on NGSL list.

As can be observed in Figure 6, repetition rate of 20 words from 2000 most frequent words decreases in line with their list standings on NGSL. That is, recycling of randomly selected words from 1000 high frequency are higher and most of the randomly chosen words from NGSL-2 do not appear in the textbooks. Moreover, the tendency of the random words' frequency drop according to their NGSL list standings is similar in both Touchstone 3 and Headway Pre-intermediate, which indicates that frequency values of randomly selected words in both texts are parallel to NGSL frequency of occurrence to a great extent.

5.2. Recommendations

The importance of lexis is unquestionable as an essential component of language learning and ELT textbooks' content. Despite this, different aspects of vocabulary input that learners and course books need have not been investigated thoroughly. Lack of research may have been caused by limited opportunities researchers had in the past to deal with vast number of words as well as other reasons.

Corpus and corpus-based studies made it possible to further analyze words in general and lexical content of language teaching materials and textbooks. These studies may be used both for evaluating the existing content and selecting materials to improve it. Corpus-informed materials such as grammar books, dictionaries and course books are being used by teachers and learners even if they do not always recognize that those materials are corpus-based (Chambers, 2019). Thus, it can be said that corpus has already become a part of the language learning and teaching.

However, researchers maintain that there are still many English teachers and textbook writers who are not familiar with the basic corpus linguistics terms and corpus use in language teaching. For instance, Şimşek (2020) concluded from her qualitative study with pre-service English teachers that many of the participants are not equipped with corpus literacy skills and the number of corpus-related courses is very scarce in teacher education (Callies, 2019; Frankenberg&Garcia, 2012). Corpus literacy is defined as “the ability to use the

technology of corpus linguistics (CL) to investigate language and enhance the language development of students” (Heather& Helt 2012, p. 417).

For this reason, this study highly suggests informing English teachers, course books writers and publishers about the existence of corpus and its use in the first place. In order to do this, corpus literacy courses could be integrated into education of language teachers. Textbook writers can be trained on the use of corpus, too. Once the teachers acquire corpus literacy skills, they can compare textbook content with the most frequent words or structures of English to identify its extend of authenticity and use the course books more flexibly. That is, professionals in the field of language teaching can evaluate textbooks more critically with better pedagogic and language awareness.

As a result, teachers may take more responsibility in material development and adaptation of the textbooks when their language awareness is raised.

It is essential because learners mostly rely on textbook content in their vocabulary learning process. Teachers make use of ELT textbooks to provide students with most of the input they get. There are studies which revealed that textbook writers follow a topic-based approach for content and vocabulary selection or sometimes they just decide on the lexical content intuitively. To illustrate, lexical content of six commonly-used course books were analyzed by Reda (2003) and their vocabulary content seemed to be topic-based. Similarly, the present research concluded that in textbooks coverage and recycling of most frequent words is not high enough, even in the corpus-informed course book.

Results of recycling rates in both course books showed that vocabulary repetition within the textbook require systematic analysis and methods to improve. In this regard, lexical frequency profiles of the words may be utilized to decide on which words should be selected and which ones should be recycled more often than the others.

This study analyzed the lexical content of two textbooks in comparison with high-frequency wordlists by using a corpus-based method. As the frequency of a word helps us to understand how often it is used by native speakers, it may be considered as an indicator of usefulness of the lexis (Nation and Waring, 1997; Richards, 1974). Having good command of the most frequent words would help learners comprehend most of the written or spoken contexts of English and use the language more with flexibility. Moreover, students can guess the meaning of some low frequency words when they know the most essential words in a context.

Based on the vocabulary profile results of the textbooks, this research shows the necessity of covering sufficient number of high-frequency words as a priority. However, course book writers and teachers must be informed that the use of most frequent words of English as reference is essential in presenting authentic content in materials and textbooks and investigating them more critically to check what weaknesses they have for teaching vocabulary.

With the help of vocabulary profiler tools, it is quite practical to use high-frequency lists as a reference to check the coverage of frequent and infrequent words in a text. Therefore, these tools can be used to avoid low frequency words which can be described as less useful part of the lexical content. This study also points out that it is crucial to use vocabulary coverage results as they reveal which frequent words are included and excluded in a context. This result can be used to cover more of high-frequency words and to remove some of the low frequency words in the content. It may be done in either in the design process of textbooks or during the selection of materials to supplement the course books. By profiling the content of the textbooks we can decide on the parts that are really indispensable for students' needs and remove the others instead of following the textbook content page by page. Additionally, selected parts of the course book could be supplemented with materials that reflect the most useful vocabulary and structures of English.

Nation (2000) and Ellis (2002) emphasized the impact of frequency and repetition on vocabulary learning. In addition to learning words adequately, learners can recognize and respond to these words in a shorter time when they occur with high frequency in a context. Therefore, frequency is perceived as an important factor contributing to the effective learning of vocabulary. Researchers note that words that occur less frequently in English is thought to be more difficult by learners (Chen & Truscott, 2010; Koirala, 2015). Furthermore, lower frequency of occurrence decreased the chance of delayed retention of the words.

High frequency is important also because learners may learn words implicitly by exposure. However, principled instruction of vocabulary started to be recommended too in language teaching field. For this purpose, making use of high frequency words may prove useful. Teachers may try to provide sufficient vocabulary repetition for learners with in-class activities during the lessons by taking these lists as reference although most of the textbooks are problematic in terms of recycling of the words. Since graded-readers are written based on the most frequent vocabulary, using them could be an effective and practical way of

presenting high-frequency words to the students and supplementing course books. These readers are useful both in terms of their coverage of useful vocabulary and high recycling rate. They would give the learners a chance to read extensively and learn the vocabulary implicitly. Also, follow-up activities of the readers could be a way of increasing repetition of the words and teaching explicitly.

Considering the points above, improving the vocabulary content of textbooks and supplementing them with materials that present more useful and authentic words is a must. Increasing the authenticity and selecting more useful vocabulary content would definitely be more beneficial and motivating for learners. Corpus-based materials can be reliable sources in this regard. More importantly, this process requires teachers to be better researchers, active content developers instead of just being passive consumers of the content provided for teaching. Schön (1987) emphasizes the same point by stating that teachers are expected to be more actively involved in teaching process as reflective practitioners with critical awareness. Therefore, education provided for teachers must encourage them to be more productive, too.

In future studies, both the number of books and sections investigated within the books may be considered to be extended in order to find distribution of high frequency words along with their coverage in the textbook.

Finally, the same type of comparative vocabulary profile analysis of textbooks can be carried out by using different high-frequency word lists as the basis or different textbooks.

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**APPENDIX I: HEADWORDS OF THE FIRST 1,000 MOST FREQUENT ENGLISH
WORD LIST FOUND IN TOUCHSTONE 3**

ability	<u>age</u>	<u>any</u>
<u>able</u>	agency	<u>anyone</u>
<u>about</u>	agent	<u>anything</u>
above	<u>ago</u>	anyway
accept	<u>agree</u>	appear
<u>access</u>	agreement	application
<u>accord</u>	ahead	apply
<u>account</u>	<u>aim</u>	approach
achieve	<u>air</u>	<u>area</u>
across	<u>all</u>	<u>argue</u>
<u>act</u>	allow	argument
<u>action</u>	almost	arm
activity	alone	<u>around</u>
<u>actually</u>	along	arrive
<u>add</u>	already	<u>art</u>
addition	<u>also</u>	article
<u>address</u>	although	<u>as</u>
<u>adult</u>	<u>always</u>	<u>ask</u>
advance	among	associate
advantage	amount	assume
affect	analysis	<u>at</u>
<u>after</u>	<u>and</u>	attack
afternoon	<u>animal</u>	attempt
<u>again</u>	<u>another</u>	<u>attend</u>
against	<u>answer</u>	<u>attention</u>

author	between	<u>card</u>
available	<u>beyond</u>	care
average	<u>big</u>	career
avoid	<u>bill</u>	<u>carry</u>
<u>away</u>	<u>bit</u>	case
baby	<u>black</u>	<u>catch</u>
<u>back</u>	<u>blue</u>	<u>cause</u>
<u>bad</u>	<u>board</u>	<u>cell</u>
balance	body	<u>cent</u>
<u>bank</u>	<u>book</u>	<u>center</u>
bar	<u>both</u>	<u>central</u>
<u>base</u>	<u>box</u>	<u>century</u>
basic	boy	certain
basis	break	certainly
<u>be</u>	bring	challenge
<u>bear</u>	<u>brother</u>	<u>chance</u>
<u>beautiful</u>	<u>build</u>	<u>change</u>
<u>because</u>	<u>bus</u>	character
<u>become</u>	<u>business</u>	<u>charge</u>
bed	<u>but</u>	<u>check</u>
<u>before</u>	<u>buy</u>	<u>child</u>
<u>begin</u>	<u>by</u>	choice
behavior	<u>call</u>	choose
behind	campaign	church
believe	<u>can</u>	<u>city</u>
below	capital	<u>claim</u>
benefit	<u>car</u>	<u>class</u>

<u>clean</u>	<u>continue</u>	deal
<u>clear</u>	contract	death
clearly	<u>control</u>	debate
clock	<u>conversation</u>	<u>decide</u>
close	<u>cost</u>	<u>decision</u>
<u>clothes</u>	<u>could</u>	<u>deep</u>
club	<u>country</u>	define
cold	<u>couple</u>	<u>degree</u>
college	<u>course</u>	<u>demand</u>
color	court	department
<u>come</u>	<u>cover</u>	depend
comment	<u>create</u>	describe
common	<u>credit</u>	design
communication	cross	despite
community	<u>culture</u>	detail
<u>company</u>	current	<u>determine</u>
<u>compare</u>	customer	<u>develop</u>
competition	<u>cut</u>	development
complete	<u>daily</u>	die
completely	<u>damage</u>	difference
computer	<u>dance</u>	<u>different</u>
<u>concern</u>	dark	<u>difficult</u>
conclusion	data	difficulty
<u>condition</u>	<u>date</u>	direct
consider	daughter	direction
<u>contact</u>	<u>day</u>	director
<u>contain</u>	dead	discover

discuss	<u>economy</u>	exactly
discussion	<u>education</u>	<u>example</u>
disease	effect	except
<u>do</u>	effort	exercise
doctor	<u>either</u>	<u>exist</u>
<u>document</u>	election	<u>expect</u>
dog	<u>else</u>	<u>experience</u>
dollar	<u>employee</u>	explain
door	<u>encourage</u>	express
doubt	<u>end</u>	extend
<u>down</u>	energy	<u>eye</u>
<u>draw</u>	enjoy	<u>face</u>
dream	<u>enough</u>	facility
<u>dress</u>	<u>enter</u>	<u>fact</u>
drink	<u>environment</u>	factor
<u>drive</u>	especially	<u>fail</u>
<u>drop</u>	establish	<u>fall</u>
drug	estimate	family
due	<u>even</u>	<u>far</u>
during	evening	<u>fast</u>
<u>each</u>	event	father
<u>early</u>	<u>ever</u>	<u>favorite</u>
<u>earn</u>	<u>every</u>	fear
easily	everybody	feature
<u>easy</u>	<u>everyone</u>	<u>feel</u>
<u>eat</u>	everything	female
economic	evidence	<u>few</u>

<u>field</u>	<u>forget</u>	<u>great</u>
<u>fight</u>	<u>form</u>	<u>green</u>
<u>figure</u>	<u>former</u>	<u>ground</u>
file	<u>forward</u>	<u>group</u>
<u>fill</u>	<u>free</u>	grow
<u>film</u>	<u>friend</u>	growth
<u>final</u>	<u>from</u>	guess
<u>finally</u>	<u>front</u>	<u>guy</u>
financial	full	<u>hair</u>
<u>find</u>	fun	half
fine	function	<u>hand</u>
finish	fund	happen
<u>fire</u>	further	happy
firm	future	<u>hard</u>
<u>first</u>	<u>gain</u>	<u>have</u>
<u>fish</u>	game	<u>he</u>
<u>fit</u>	garden	head
fix	general	health
floor	generally	<u>hear</u>
<u>fly</u>	generation	<u>heart</u>
<u>focus</u>	<u>get</u>	<u>help</u>
follow	<u>girl</u>	<u>here</u>
<u>food</u>	<u>give</u>	herself
<u>foot</u>	<u>go</u>	<u>high</u>
<u>for</u>	goal	himself
force	<u>good</u>	history
foreign	government	hit

hold	indicate	<u>kind</u>
holiday	individual	<u>know</u>
<u>home</u>	industry	knowledge
<u>hope</u>	influence	<u>lack</u>
hospital	<u>information</u>	<u>land</u>
<u>hot</u>	<u>inside</u>	<u>language</u>
hotel	instance	<u>large</u>
<u>hour</u>	instead	<u>last</u>
<u>house</u>	interest	<u>late</u>
<u>how</u>	international	laugh
however	interview	law
huge	<u>into</u>	<u>lead</u>
<u>human</u>	introduce	leader
husband	investment	<u>learn</u>
<u>idea</u>	involve	least
<u>identify</u>	<u>issue</u>	leave
<u>if</u>	<u>it</u>	legal
image	<u>item</u>	<u>less</u>
imagine	itself	<u>let</u>
<u>immediately</u>	<u>job</u>	letter
<u>important</u>	join	<u>level</u>
<u>improve</u>	judge	lie
<u>in</u>	<u>just</u>	<u>life</u>
include	<u>keep</u>	light
income	key	<u>like</u>
<u>increase</u>	<u>kid</u>	likely
indeed	<u>kill</u>	<u>limit</u>

<u>line</u>	<u>market</u>	<u>money</u>
<u>link</u>	<u>marry</u>	<u>month</u>
<u>list</u>	match	<u>more</u>
listen	material	morning
<u>little</u>	matter	<u>most</u>
<u>live</u>	<u>may</u>	<u>mother</u>
local	maybe	move
<u>long</u>	<u>mean</u>	movement
<u>look</u>	measure	movie
<u>lose</u>	medium	mr
loss	meet	mrs
<u>lot</u>	<u>member</u>	<u>much</u>
<u>love</u>	<u>memory</u>	music
<u>low</u>	mention	<u>must</u>
machine	<u>message</u>	myself
<u>magazine</u>	method	<u>name</u>
<u>main</u>	<u>middle</u>	<u>nation</u>
maintain	<u>might</u>	<u>national</u>
major	<u>mile</u>	natural
<u>make</u>	<u>military</u>	nature
male	<u>mind</u>	near
<u>man</u>	<u>mine</u>	nearly
manage	minute	necessary
management	<u>miss</u>	<u>need</u>
manager	<u>model</u>	<u>network</u>
<u>many</u>	modern	<u>never</u>
<u>mark</u>	<u>moment</u>	<u>new</u>

<u>news</u>	<u>on</u>	particularly
<u>newspaper</u>	<u>once</u>	party
<u>next</u>	<u>one</u>	<u>pass</u>
<u>nice</u>	only	<u>past</u>
night	<u>open</u>	patient
<u>no</u>	operate	pattern
nor	<u>operation</u>	pause
normal	<u>opinion</u>	<u>pay</u>
<u>not</u>	opportunity	<u>people</u>
note	option	<u>per</u>
nothing	<u>or</u>	<u>percent</u>
<u>notice</u>	order	perform
<u>now</u>	<u>organization</u>	performance
<u>number</u>	organize	<u>perhaps</u>
object	<u>original</u>	period
obviously	<u>other</u>	<u>person</u>
occur	<u>out</u>	<u>personal</u>
<u>of</u>	<u>outside</u>	<u>phone</u>
<u>off</u>	<u>over</u>	<u>pick</u>
offer	<u>own</u>	picture
office	page	<u>piece</u>
officer	<u>paint</u>	<u>place</u>
official	<u>paper</u>	<u>plan</u>
<u>often</u>	<u>parent</u>	plant
<u>oil</u>	park	<u>play</u>
okay	<u>part</u>	<u>player</u>
<u>old</u>	particular	please

point	problem	race
police	process	<u>raise</u>
<u>policy</u>	produce	<u>range</u>
political	product	<u>rate</u>
poor	production	rather
<u>popular</u>	professional	<u>reach</u>
population	<u>profit</u>	<u>read</u>
position	<u>program</u>	ready
positive	project	<u>real</u>
possibility	<u>promise</u>	<u>realize</u>
possible	property	<u>really</u>
<u>post</u>	proposal	reason
potential	propose	receive
<u>pound</u>	<u>protect</u>	<u>recent</u>
power	<u>prove</u>	recently
practice	provide	recognize
prefer	<u>public</u>	<u>record</u>
prepare	<u>pull</u>	<u>red</u>
present	<u>purchase</u>	reduce
president	purpose	refer
press	push	reference
pressure	<u>put</u>	reflect
pretty	quality	regard
previous	quarter	region
price	<u>question</u>	relate
<u>private</u>	<u>quickly</u>	relation
<u>probably</u>	quite	relationship

<u>release</u>	<u>run</u>	set
remain	sale	several
<u>remember</u>	<u>same</u>	shall
replace	<u>save</u>	<u>shape</u>
<u>report</u>	<u>say</u>	share
represent	<u>school</u>	<u>she</u>
require	<u>science</u>	<u>shop</u>
research	score	short
<u>resource</u>	<u>screen</u>	<u>should</u>
respect	<u>sea</u>	<u>show</u>
response	search	<u>side</u>
responsibility	<u>season</u>	<u>sign</u>
<u>rest</u>	<u>seat</u>	significant
<u>restaurant</u>	<u>second</u>	similar
result	section	<u>simple</u>
return	<u>security</u>	simply
review	<u>see</u>	<u>since</u>
<u>right</u>	<u>seek</u>	<u>sing</u>
ring	seem	<u>single</u>
<u>rise</u>	<u>sell</u>	sister
risk	<u>send</u>	<u>sit</u>
road	sense	<u>site</u>
<u>rock</u>	separate	situation
role	series	size
<u>room</u>	serious	<u>skill</u>
<u>round</u>	serve	sleep
rule	<u>service</u>	<u>small</u>

smile	standard	suffer
<u>so</u>	<u>star</u>	suggest
social	<u>start</u>	summer
society	<u>state</u>	supply
solution	<u>statement</u>	<u>support</u>
<u>some</u>	<u>station</u>	suppose
somebody	<u>stay</u>	<u>sure</u>
<u>someone</u>	step	<u>surprise</u>
<u>something</u>	<u>still</u>	<u>system</u>
<u>sometimes</u>	stock	<u>table</u>
<u>son</u>	<u>stop</u>	<u>take</u>
<u>song</u>	<u>store</u>	<u>talk</u>
soon	<u>story</u>	target
sorry	<u>strategy</u>	task
<u>sort</u>	<u>street</u>	tax
sound	strike	teach
<u>source</u>	strong	teacher
<u>space</u>	structure	team
<u>speak</u>	<u>student</u>	technology
special	<u>study</u>	television
specific	stuff	<u>tell</u>
speech	style	<u>tend</u>
<u>spend</u>	<u>subject</u>	<u>term</u>
sport	<u>success</u>	test
<u>staff</u>	<u>successful</u>	<u>than</u>
stage	<u>such</u>	thank
<u>stand</u>	suddenly	<u>that</u>

<u>the</u>	trade	<u>version</u>
<u>themselves</u>	traditional	<u>very</u>
<u>then</u>	train	view
theory	<u>travel</u>	village
<u>there</u>	treat	<u>visit</u>
<u>therefore</u>	treatment	voice
<u>they</u>	<u>tree</u>	vote
<u>thing</u>	<u>trip</u>	wait
<u>think</u>	<u>trouble</u>	<u>walk</u>
<u>this</u>	true	wall
<u>though</u>	<u>try</u>	<u>want</u>
<u>through</u>	<u>turn</u>	<u>war</u>
<u>throughout</u>	<u>type</u>	<u>watch</u>
<u>throw</u>	unclear	<u>water</u>
thus	<u>under</u>	<u>way</u>
<u>time</u>	understand	<u>we</u>
<u>to</u>	<u>unit</u>	<u>wear</u>
<u>today</u>	<u>university</u>	<u>week</u>
together	<u>until</u>	weekend
<u>tomorrow</u>	<u>up</u>	weight
too	upon	<u>welcome</u>
<u>top</u>	<u>use</u>	<u>well</u>
total	useful	<u>what</u>
<u>touch</u>	<u>usually</u>	whatever
toward	value	<u>when</u>
<u>town</u>	variety	<u>where</u>
track	various	<u>whether</u>

which

while

white

who

whole

why

wide

wife

will

win

window

wish

with

within

without

woman

wonder

word

work

worker

world

worry

worth

would

write

wrong

yeah

year

yes

yesterday

yet

you

young

yourself

**APPENDIX II: HEADWORDS OF THE SECOND 1,000 MOST FREQUENT
ENGLISH WORD LIST FOUND IN TOUCHSTONE 3**

abandon	affair	arise
abroad	afford	army
absence	afraid	arrange
<u>absolutely</u>	aid	arrangement
abuse	aircraft	arrest
<u>academic</u>	alive	<u>artist</u>
<u>accident</u>	alternative	aside
accommodation	<u>amaze</u>	assess
accompany	analyze	assessment
accuse	ancient	asset
achievement	angry	assistant
acknowledge	announce	association
acquire	annual	assumption
<u>active</u>	anybody	atmosphere
<u>actor</u>	<u>anywhere</u>	attach
<u>actual</u>	apart	attitude
<u>ad</u>	<u>apparently</u>	<u>attract</u>
additional	appeal	attractive
administration	appearance	<u>audience</u>
admit	appoint	<u>award</u>
adopt	appointment	aware
advertise	appreciate	background
advertisement	appropriate	<u>bag</u>
advice	approve	<u>ball</u>
advise	approximately	ban

band	bother	carefully
basically	<u>bottle</u>	cash
battle	<u>bottom</u>	cast
<u>beach</u>	brain	<u>cat</u>
beat	branch	category
beauty	<u>brand</u>	celebrate
bedroom	breakfast	<u>chain</u>
belief	breast	chair
belong	breath	chairman
besides	breathe	channel
<u>bet</u>	bridge	chapter
bike	brief	characteristic
bind	bright	chart
<u>bird</u>	broad	cheap
<u>birth</u>	brown	chemical
blame	budget	<u>chief</u>
block	burn	<u>childhood</u>
blood	<u>busy</u>	chip
blow	calculate	circle
boat	calm	circumstance
bomb	camera	<u>citizen</u>
<u>bond</u>	camp	civil
bone	cancer	classic
<u>border</u>	capable	climate
bore	capacity	<u>climb</u>
borrow	<u>capture</u>	closely
boss	careful	<u>coach</u>

coast	component	<u>contribution</u>
<u>coat</u>	concentrate	convention
code	concentration	convince
<u>coffee</u>	<u>concept</u>	<u>cook</u>
collapse	concert	cool
<u>colleague</u>	conclude	cope
<u>collect</u>	<u>conduct</u>	copy
collection	confidence	core
column	confirm	<u>corner</u>
combination	conflict	<u>corporate</u>
combine	confuse	corporation
comfort	<u>connect</u>	correct
comfortable	<u>connection</u>	council
command	consequence	count
commercial	conservative	county
commission	considerable	crash
commit	consideration	creation
commitment	consist	<u>crime</u>
committee	consistent	<u>criminal</u>
communicate	constant	crisis
comparison	construct	criterion
compete	construction	<u>critic</u>
competitive	consumer	<u>critical</u>
complain	<u>content</u>	criticism
complaint	context	crop
complex	contrast	<u>crowd</u>
complicate	<u>contribute</u>	crucial

cry	description	drama
cultural	deserve	dramatic
cup	desire	<u>driver</u>
currently	<u>desk</u>	dry
cycle	destroy	duty
dad	<u>device</u>	<u>ear</u>
danger	diet	earth
dangerous	differ	<u>east</u>
dear	dinner	edge
debt	directly	<u>editor</u>
decade	disappear	educate
declare	disappoint	<u>educational</u>
decline	discipline	effective
decrease	discount	effectively
defeat	dish	efficient
defend	disk	egg
<u>defense</u>	<u>display</u>	elect
<u>definitely</u>	<u>distance</u>	electronic
definition	distinguish	element
delay	distribute	elsewhere
delight	district	email
deliver	divide	emerge
delivery	division	emergency
democracy	domestic	emotion
demonstrate	double	emotional
deny	dozen	emphasize
derive	draft	employ

employer	<u>excellent</u>	fairly
employment	exception	faith
<u>empty</u>	exchange	familiar
enable	excite	famous
encounter	excuse	fan
enemy	<u>executive</u>	farm
engage	<u>exhibit</u>	farmer
<u>engine</u>	exhibition	fashion
<u>engineer</u>	existence	<u>fat</u>
enhance	<u>expand</u>	fault
enormous	expectation	favor
ensure	expense	federal
<u>entire</u>	<u>expensive</u>	<u>fee</u>
<u>entirely</u>	<u>experiment</u>	feed
entry	expert	fellow
environmental	explanation	finance
equal	explore	finger
equally	export	flat
equipment	expose	flight
error	expression	flow
escape	extent	flower
essential	extra	folk
estate	<u>extreme</u>	<u>football</u>
eventually	<u>extremely</u>	forest
everywhere	factory	formal
examination	<u>failure</u>	forth
examine	fair	frame

freedom	guarantee	host
freeze	guard	<u>household</u>
frequently	guest	<u>hunt</u>
<u>fresh</u>	guide	<u>hurt</u>
friendly	gun	<u>ice</u>
<u>fruit</u>	<u>habit</u>	ideal
fuel	hall	<u>identity</u>
fully	handle	ignore
fundamental	<u>hang</u>	<u>ill</u>
funny	hardly	illness
furthermore	hat	<u>illustrate</u>
gap	hate	immediate
gas	healthy	<u>implement</u>
gather	<u>heat</u>	implication
gene	heavy	imply
generate	hell	<u>import</u>
gentleman	helpful	<u>importance</u>
gift	<u>hi</u>	impose
glad	hide	impossible
<u>glass</u>	<u>highlight</u>	impression
global	highly	improvement
gold	hill	incident
<u>grade</u>	hire	increasingly
<u>graduate</u>	historical	independent
grant	hole	index
grateful	honor	industrial
<u>gray</u>	<u>horse</u>	inform

initial	journey	library
initiative	judgment	license
injury	jump	lift
insist	justice	<u>literature</u>
install	kick	<u>load</u>
institution	king	loan
instruction	kiss	<u>locate</u>
instrument	kitchen	location
insurance	knock	lock
integrate	<u>label</u>	lovely
intellectual	labor	<u>luck</u>
intelligence	lady	<u>lucky</u>
intend	lake	lunch
intention	landscape	<u>mail</u>
interaction	largely	mainly
internal	latter	majority
interpretation	<u>launch</u>	manner
introduction	lawyer	manufacture
invest	<u>lay</u>	manufacturer
investigate	leadership	map
investigation	lean	marriage
investor	<u>left</u>	mass
invite	<u>leg</u>	massive
<u>island</u>	legislation	master
joint	length	mathematics
joke	lesson	maximum
journalist	liberal	<u>meal</u>

meanwhile	<u>museum</u>	observe
<u>meat</u>	musical	obvious
mechanism	narrow	occasion
medical	<u>native</u>	occupy
medicine	<u>nearby</u>	odd
mental	necessarily	<u>online</u>
merely	neck	<u>onto</u>
metal	negative	oppose
milk	negotiate	opposite
minimum	negotiation	opposition
minister	neighbor	<u>ordinary</u>
minor	neighborhood	<u>origin</u>
minority	neither	originally
mission	net	<u>otherwise</u>
<u>mistake</u>	nevertheless	<u>ought</u>
mix	nobody	ourselves
mobile	noise	outcome
monitor	none	outline
moral	normally	output
moreover	<u>north</u>	overall
mostly	northern	owner
motion	notion	pack
<u>mountain</u>	novel	package
mouse	nuclear	pain
mouth	nurse	pair
multiple	objective	panel
murder	observation	participant

participate	pleasure	prior
partly	plenty	priority
partner	plot	prison
passage	plus	procedure
<u>passenger</u>	<u>pocket</u>	proceed
path	politician	producer
payment	<u>politics</u>	professor
peace	poll	progress
<u>peak</u>	pool	promote
percentage	<u>pop</u>	proper
<u>perfect</u>	possibly	properly
perfectly	powerful	proportion
permanent	practical	prospect
permit	predict	<u>protection</u>
personality	premise	protein
<u>personally</u>	<u>presence</u>	protest
perspective	presentation	proud
phase	preserve	provision
<u>photo</u>	presidential	pursue
photograph	prevent	qualify
phrase	previously	<u>quick</u>
physical	primarily	quiet
pilot	primary	quote
plain	prime	radio
plane	principal	<u>rain</u>
plastic	principle	<u>rank</u>
plate	<u>print</u>	rapidly

<u>rare</u>	remove	<u>root</u>
<u>reaction</u>	<u>rent</u>	route
reader	repair	<u>row</u>
reality	repeat	rural
reasonable	<u>reply</u>	rush
<u>recall</u>	<u>reporter</u>	sad
recommend	representative	<u>safe</u>
recommendation	reputation	<u>safety</u>
recover	request	salary
reduction	requirement	sample
reform	researcher	satisfy
refuse	reserve	scale
regional	resident	scene
<u>register</u>	resolution	schedule
<u>regular</u>	resolve	scheme
regulation	respond	scientific
reject	<u>responsible</u>	scientist
<u>relative</u>	retain	secondly
relatively	retire	<u>secret</u>
<u>relax</u>	reveal	secretary
relevant	revenue	sector
relief	revolution	secure
religion	reward	<u>seed</u>
religious	rich	select
<u>rely</u>	<u>ride</u>	selection
remark	<u>river</u>	<u>self</u>
remind	roll	senior

sentence	<u>skin</u>	spread
sequence	sky	<u>spring</u>
<u>seriously</u>	slide	square
session	slightly	stable
settle	slip	status
settlement	slow	<u>steal</u>
severe	slowly	stick
sex	smell	stone
sexual	smoke	storm
shake	snow	<u>straight</u>
sharp	soft	strange
sheet	software	strength
shift	soldier	stress
ship	solve	stretch
shirt	somehow	strongly
shock	somewhat	struggle
shoe	somewhere	studio
shoot	soul	substantial
<u>shot</u>	<u>south</u>	succeed
<u>shoulder</u>	southern	sudden
shout	<u>speaker</u>	sufficient
shut	specifically	suggestion
sick	<u>speed</u>	suit
sight	spell	suitable
<u>signal</u>	spirit	sum
significantly	split	sun
silence	spot	surely

surface	thin	trust
surround	threat	truth
<u>survey</u>	threaten	twice
survive	ticket	typical
suspect	<u>tie</u>	unable
sweet	till	unemployment
<u>swim</u>	tiny	unfortunately
swing	tip	union
switch	<u>tire</u>	unique
<u>talent</u>	title	<u>unless</u>
<u>tall</u>	tone	unlike
tape	tonight	unusual
taste	tool	update
<u>taxi</u>	topic	upper
<u>tea</u>	totally	urban
tear	tough	urge
technical	<u>tour</u>	user
technique	<u>tourist</u>	<u>usual</u>
telephone	toy	valuable
temperature	tradition	variable
temporary	<u>traffic</u>	vary
tennis	transfer	vast
terrible	transport	vehicle
text	trend	via
theater	trial	<u>victim</u>
theme	troop	victory
<u>thick</u>	truly	<u>video</u>

violence

vision

visitor

volume

volunteer

voter

wage

wake

warm

warn

wash

waste

wave

weak

weapon

weather

wed

west

wheel

whereas

widely

wild

wind

wine

winner

winter

witness

wonderful

wood

writer

yard

yellow

yield

youth

**APPENDIX III: HEADWORDS OF THE ACADEMIC WORD LIST FOUND IN
TOUCHSTONE 3**

abdominal	agriculture	archaeology
absorb	airplane	architect
absorption	algebra	array
accelerate	algorithm	arrow
acceleration	alien	articulate
accent	alliance	artifact
accumulate	allocate	artificial
accumulation	allocation	artistic
accuracy	altitude	artwork
accurately	aluminum	aspect
acid	amino	assembly
acidic	amongst	assert
activate	amplitude	assignment
actively	analogy	<u>athletic</u>
acute	ancestor	atom
adaptation	anthropology	atomic
adaptive	anti	auction
adjacent	antibiotic	audio
admission	antibody	audit
adolescent	antiquity	authority
adverse	appendix	autonomy
aerosol	applause	availability
aesthetic	apple	axiom
affirm	approximate	axis
afterward	approximation	backward
aggregate	arbitrary	bacteria

bacterial	calcium	clarify
bang	calculation	classification
bargain	calculator	classify
barrel	calculus	<u>classroom</u>
basin	campus	clay
bat	candidate	clever
beam	capillary	click
behavioral	capitalism	client
bilingual	capitalist	clinic
binary	carrier	clip
biodiversity	cattle	clone
biologist	censor	closure
biology	characterization	clue
bizarre	cheat	coefficient
<u>blank</u>	cheer	cognitive
bleed	chemistry	coherent
bodily	chemotherapy	collective
bonus	chess	colonial
bound	chloride	colony
bracket	chromosome	comma
breakdown	chronic	commentary
broadly	chunk	commodity
bubble	cinema	commonly
bucket	circa	communicative
bulk	circulate	communist
<u>bullet</u>	circulation	compact
bundle	civilization	comparable

comparative	consent	correlation
compensate	conservation	correspondence
competence	conserve	corruption
competent	consonant	cortex
complement	constitution	<u>credibility</u>
complication	constrain	criteria
comply	consultation	critically
composer	consumption	critique
composite	<u>container</u>	crude
comprehension	continent	<u>crystal</u>
computation	continuity	cue
conceive	contour	cure
conception	contradict	curriculum
conceptual	contradiction	cyclic
conditional	contradictory	cylinder
conduction	contrary	damp
cone	controversy	deadline
conference	converge	decay
configuration	convergence	deceive
confine	coordinate	defect
confound	coordination	deficiency
congruent	cord	definite
connector	coronary	deflection
connotation	corpus	degrade
conscious	correction	deliberately
consciousness	correctly	delta
consensus	correlate	demonstrator

denominator	dimensional	ecological
denote	dioxide	ecology
dense	directive	economically
dependence	disability	economist
depict	disadvantage	effectiveness
derivative	discharge	elaborate
descendent	discourse	elastic
descriptor	discrete	elasticity
destination	discrimination	electron
detection	displacement	elementary
developmental	dissection	elevate
deviation	dissertation	elevation
diagnose	dissolve	elimination
diagnosis	distribution	elite
diagnostic	disturbance	embed
diagram	diverse	emergence
dialect	domain	emission
diameter	dominance	emit
diary	dominant	emperor
dictate	domination	empirical
dictionary	donor	encode
differential	dose	enforcement
differentiate	drain	enormously
differentiation	drift	entity
diffusion	duration	entrant
dilemma	dye	enzyme
dilute	dynamic	epidemic

epidemiology	feedback	generalization
equality	fertility	generalize
equilibrium	fetal	genetically
equivalence	fever	genetics
erase	fiber	ghost
essence	fin	globalization
<u>essentially</u>	finite	goat
estimation	flesh	goodness
ethical	flexibility	<u>goods</u>
ethics	flip	gradient
evident	fluid	gram
evolutionary	flux	grammatical
ex	footnote	graph
execute	formally	grasp
execution	formulation	gravity
exit	forum	grid
expertise	fossil	gross
explicit	founds	gut
explicitly	fraction	habitat
exploit	fracture	halfway
exponential	freely	handout
fabric	friction	harvest
facet	fringe	hawk
facilitate	fundamentally	headquarter
factorial	fungus	hedge
faculty	fusion	helix
fatigue	gauge	hepatitis

herbicide	indigenous	instinct
hierarchy	indirect	integral
hip	individually	integration
historically	induce	intensity
homework	induction	intensive
horizon	industrialization	interact
horizontal	industrialize	interestingly
hormone	inequality	interface
hydrogen	<u>inevitably</u>	interfere
identical	infect	intermediate
<u>identification</u>	infectious	interrupt
ideology	inference	interval
illusion	inferior	intervene
immune	infinite	interviewer
<u>impact</u>	infinity	invade
implicit	influential	invasion
importantly	informal	inversion
impulse	inhibit	invert
incidence	inhibition	<u>ion</u>
incline	initiate	irrelevant
inclusion	initiation	irrigation
<u>incredible</u>	inject	jazz
incredibly	injection	<u>junior</u>
incumbent	innate	justification
independently	insect	kidney
indicator	insert	<u>kilometer</u>
indifference	instability	lab

lateral	machinery	metabolism
layout	magnetic	metaphor
leaf	magnitude	methodology
lecturer	mall	micro
legend	manipulate	<u>mid</u>
legitimate	manipulation	migrate
leisure	manual	migration
lever	manuscript	millimeter
lexical	<u>marble</u>	mineral
liable	marginal	minimal
lifestyle	marker	minimize
lifetime	marrow	minus
likelihood	maternal	missile
likewise	mathematical	mobility
limb	matrix	modification
linear	maximize	mole
linguistic	meaningful	molecular
linguistics	mechanic	molecule
liter	mechanical	momentum
liver	<u>media</u>	monetary
locally	mediate	monkey
locus	membrane	monopoly
logical	memorize	morality
longitudinal	mentor	morphological
loop	<u>mercury</u>	morphology
lump	merge	mortality
lung	messenger	motif

motive	norm	overhead
multi	notation	overlap
multinational	novice	overview
multiply	nucleus	oxidize
mutation	null	oxygen
myth	numerical	painful
naked	nutrient	par
namely	objection	paradigm
nasty	obscure	paradox
nationalism	observer	parameter
<u>neat</u>	obtain	parcel
necessity	occupation	pardon
neo	occurrence	parental
<u>nest</u>	offspring	parenthesis
neural	onset	partial
neuron	onwards	partially
neutral	optical	particle
nicely	optimal	partition
niche	optimum	pathway
nitrogen	oral	peasant
noble	organ	periodic
node	organism	peripheral
noisy	<u>orient</u>	pest
nominal	orientation	pesticide
non	oscillation	phenomenal
nonetheless	outer	philosopher
nonlinear	outlet	philosophical

phonological	precede	psychiatric
phosphate	precipitate	psychologist
photographic	precipitation	psychology
physically	predator	<u>publish</u>
physician	prediction	pulse
physics	predominantly	punch
physiological	prejudice	punish
<u>pi</u>	preliminary	punishment
planner	presume	purely
plantation	prevalence	puzzle
plausible	prey	qualitative
plug	primer	quantitative
plural	primitive	quantum
polar	probe	questionnaire
pole	problematic	quiz
politically	processor	quotation
portfolio	productive	rack
portray	productivity	radar
portrayal	profound	radiation
positively	progression	radius
poster	<u>progressive</u>	rainfall
postgraduate	projection	randomize
potassium	prominent	randomly
powder	pronounce	rational
practitioner	proposition	rationality
pragmatic	protocol	ray
pre	proton	reactive

reactor	respiratory	sensible
readily	retrieve	sensitivity
realism	revolutionary	sensory
realistic	rewrite	separately
realm	rhetoric	separation
receptor	rhythm	sexuality
recipe	ridiculous	shallow
reconstruct	ritual	shortly
regime	robot	shuttle
regression	rope	similarity
rehabilitation	rotate	simplify
reinforce	rotation	simulate
rejection	rub	simulation
reliability	ruler	simultaneously
render	scatter	sin
repertoire	scenario	singular
replacement	scholarship	sketch
replicate	scripture	skip
replication	scroll	slab
reproduce	secrete	slash
reproduction	sediment	slavery
<u>republic</u>	selective	slot
resemble	semantic	<u>snake</u>
reservoir	semester	sneeze
residual	semi	sniff
residue	seminar	socialize
resistant	sensation	socially

sodium	statistics	sword
solar	stereotype	syllable
soluble	stimulus	syllabus
solute	straightforward	symbolic
solvent	strand	syndrome
sometime	strategic	syntactic
sophisticate	strictly	syntax
span	stripe	synthesis
spatial	sub	synthetic
specialty	subjective	systematic
specification	subset	tech
specimen	substitution	technically
spectrum	substrate	temporal
sperm	subtle	tempt
sphere	subtract	tense
splice	sufficiently	terminal
sponsorship	suicide	terminology
spontaneous	super	terribly
spray	superior	textbook
stabilize	supposedly	theorem
stack	surgeon	theorist
stadium	surgical	thereby
stance	surplus	thermal
standardize	susceptible	thesis
static	sustainable	thickness
statistical	swap	thread
statistically	swell	threshold

thumb	<u>tropical</u>	variance
tolerance	tumor	variant
ton	turbulent	vector
toxic	tutor	vegetation
tract	ultimate	vein
traditionally	undergraduate	velocity
trait	undermine	verbal
trajectory	underneath	vertical
trans	unemployed	viable
transaction	unify	virtue
transcribe	unintelligible	vitamin
transcription	unity	vocabulary
transformation	unstable	volition
translation	uplift	vowel
transmission	upward	watershed
transmit	urine	wavelength
transparency	usage	weave
transplant	utility	wheat
trauma	utilize	whereby
treaty	utterance	whichever
tremendous	vague	<u>whoever</u>
triangle	valid	widespread
tribe	validity	wisdom
tricky	valve	workshop
trivial	variability	yeast

APPENDIX IV: OFF-LIST WORDS OF TOUCHSTONE 3

academically	cluttered	frog
academy	co	frustrated
advertisers	coaster	garb
alpha	com	garlic
ambitions	contributors	grooming
amphibian	convenience	happily
appetizer	corn	humble
archives	costly	id
atm	costume	iguanas
avenue	crabs	imaginary
aw	daisies	impeccable
bare	dart	ingredients
beans	deadliest	inherited
binoculars	delicious	instant
blog	discarded	interactive
blogs	discreetly	intercepted
blur	diving	internet
born	dot	jewelry
brilliant	eligibility	journalism
butter	escalator	junk
cab	etiquette	jupiter
calorie	fabulous	ketchup
chandeliers	fluently	lamb
chaperones	flunking	lee
chickpeas	footballers	lentils
chopped	fork	lighter
chute	founder	limber
chutney	fried	lions
clutter	fries	lo

mamba	proficient	straightened
mandarin	ramblings	stumbled
manicure	receipts	subscribers
mayonnaise	reconnect	subway
melted	reunion	subways
merry	reunions	supervises
metro	reunite	supervisor
metropolitan	ridiculously	supportive
morel	rifle	surfers
motivational multimedia	robbing	suspicious
nutritious	rocky	suzanne
oh	roller	tag
ohmynews	sanely	tahini
onion	sauce	talkative
packets	scuba	teeming
pals	sears	teen
para	semiconductor	telescopes
parrot	sesame	theft
paste	shred	thermometer
pastries	sibling	thief
pat	slouched	thieves
pedicure	snack	torn
penguins	snacks	tortoises
photography	snatch	trash
pianist	snorkeled	treasure
pilfer	songwriter	turtles
pin	spices	unauthorized
poison	spicy	undetected
poisonous	spy	unlimited
polite	statues	upperclassmen

vastly

vegetarian

versatile

vinegar

volcanic

webcasting

yelled

**APPENDIX V: HEADWORDS OF THE FIRST 1,000 MOST FREQUENT ENGLISH
WORD LIST FOUND IN HEADWAY PRE-INTERMEDIATE**

<u>a</u>	<u>age</u>	<u>anyone</u>
ability	agency	<u>anything</u>
<u>able</u>	<u>agent</u>	anyway
<u>about</u>	<u>ago</u>	appear
<u>above</u>	agree	application
accept	agreement	apply
access	ahead	approach
accord	aim	area
account	<u>air</u>	argue
achieve	<u>all</u>	argument
<u>across</u>	<u>allow</u>	arm
<u>act</u>	<u>almost</u>	<u>around</u>
action	<u>alone</u>	arrive
activity	<u>along</u>	<u>art</u>
<u>actually</u>	<u>already</u>	article
add	<u>also</u>	<u>as</u>
addition	although	<u>ask</u>
address	<u>always</u>	associate
adult	<u>among</u>	assume
advance	amount	<u>at</u>
advantage	analysis	<u>attack</u>
affect	<u>and</u>	attempt
<u>after</u>	animal	attend
<u>afternoon</u>	<u>another</u>	<u>attention</u>
<u>again</u>	<u>answer</u>	author
<u>against</u>	<u>any</u>	available

<u>average</u>	<u>big</u>	career
<u>avoid</u>	bill	<u>carry</u>
away	bit	case
baby	<u>black</u>	catch
<u>back</u>	blue	<u>cause</u>
<u>bad</u>	board	cell
balance	<u>body</u>	<u>cent</u>
bank	book	center
bar	<u>both</u>	central
base	box	century
basic	<u>boy</u>	<u>certain</u>
basis	<u>break</u>	<u>certainly</u>
<u>be</u>	<u>bring</u>	challenge
bear	<u>brother</u>	<u>chance</u>
<u>beautiful</u>	<u>build</u>	change
<u>because</u>	<u>bus</u>	character
<u>become</u>	<u>business</u>	charge
<u>bed</u>	<u>but</u>	check
<u>before</u>	<u>buy</u>	<u>child</u>
<u>begin</u>	<u>by</u>	choice
behavior	<u>call</u>	<u>choose</u>
<u>behind</u>	campaign	church
<u>believe</u>	<u>can</u>	<u>city</u>
below	<u>capital</u>	claim
benefit	<u>car</u>	class
<u>between</u>	card	clean
beyond	care	clear

clearly	control	debate
clock	<u>conversation</u>	decide
<u>close</u>	cost	decision
<u>clothes</u>	<u>could</u>	deep
<u>club</u>	<u>country</u>	define
<u>cold</u>	<u>couple</u>	degree
<u>college</u>	<u>course</u>	demand
<u>color</u>	<u>court</u>	department
<u>come</u>	cover	depend
comment	<u>create</u>	<u>describe</u>
common	credit	design
communication	<u>cross</u>	despite
<u>community</u>	<u>culture</u>	detail
<u>company</u>	current	determine
compare	customer	<u>develop</u>
competition	cut	development
<u>complete</u>	daily	<u>die</u>
<u>completely</u>	damage	difference
<u>computer</u>	dance	<u>different</u>
concern	<u>dark</u>	<u>difficult</u>
conclusion	data	difficulty
<u>condition</u>	<u>date</u>	direct
consider	daughter	direction
contact	<u>day</u>	director
contain	dead	discover
<u>continue</u>	deal	discuss
contract	death	discussion

disease	effect	except
<u>do</u>	effort	exercise
doctor	either	exist
document	election	expect
dog	<u>else</u>	experience
dollar	employee	<u>explain</u>
door	encourage	<u>express</u>
doubt	<u>end</u>	extend
<u>down</u>	energy	<u>eye</u>
draw	<u>enjoy</u>	<u>face</u>
<u>dream</u>	<u>enough</u>	facility
dress	<u>enter</u>	fact
<u>drink</u>	environment	factor
drive	<u>especially</u>	fail
<u>drop</u>	establish	<u>fall</u>
drug	estimate	<u>family</u>
due	<u>even</u>	far
<u>during</u>	<u>evening</u>	fast
<u>each</u>	event	father
<u>early</u>	<u>ever</u>	<u>favorite</u>
<u>earn</u>	<u>every</u>	fear
easily	<u>everybody</u>	feature
<u>easy</u>	<u>everyone</u>	<u>feel</u>
<u>eat</u>	<u>everything</u>	female
economic	evidence	few
economy	<u>exactly</u>	<u>field</u>
education	example	<u>fight</u>

figure	former	<u>ground</u>
file	forward	<u>group</u>
<u>fill</u>	<u>free</u>	grow
<u>film</u>	<u>friend</u>	growth
<u>final</u>	<u>from</u>	guess
<u>finally</u>	<u>front</u>	<u>guy</u>
financial	<u>full</u>	<u>hair</u>
<u>find</u>	<u>fun</u>	half
fine	function	hand
finish	fund	<u>happen</u>
<u>fire</u>	further	<u>happy</u>
firm	future	<u>hard</u>
<u>first</u>	<u>gain</u>	<u>have</u>
<u>fish</u>	<u>game</u>	<u>he</u>
fit	garden	head
fix	general	health
floor	generally	<u>hear</u>
fly	generation	<u>heart</u>
focus	<u>get</u>	<u>help</u>
<u>follow</u>	<u>girl</u>	<u>here</u>
<u>food</u>	<u>give</u>	herself
<u>foot</u>	<u>go</u>	<u>high</u>
<u>for</u>	goal	<u>himself</u>
force	<u>good</u>	<u>history</u>
<u>foreign</u>	<u>government</u>	<u>hit</u>
<u>forget</u>	<u>great</u>	hold
form	<u>green</u>	holiday

<u>home</u>	individual	<u>know</u>
hope	industry	knowledge
hospital	influence	<u>lack</u>
<u>hot</u>	information	<u>land</u>
<u>hotel</u>	<u>inside</u>	language
<u>hour</u>	instance	<u>large</u>
<u>house</u>	instead	<u>last</u>
<u>how</u>	<u>interest</u>	<u>late</u>
<u>however</u>	international	<u>laugh</u>
huge	interview	law
human	<u>into</u>	<u>lead</u>
<u>husband</u>	introduce	<u>leader</u>
<u>i</u>	investment	<u>learn</u>
<u>idea</u>	involve	least
identify	issue	<u>leave</u>
<u>if</u>	<u>it</u>	legal
<u>image</u>	item	less
<u>imagine</u>	<u>itself</u>	<u>let</u>
<u>immediately</u>	<u>job</u>	letter
<u>important</u>	join	level
improve	<u>judge</u>	<u>lie</u>
<u>in</u>	<u>just</u>	<u>life</u>
<u>include</u>	<u>keep</u>	<u>light</u>
income	<u>key</u>	<u>like</u>
increase	kid	likely
<u>indeed</u>	<u>kill</u>	limit
indicate	<u>kind</u>	<u>line</u>

link	marry	month
<u>list</u>	match	<u>more</u>
<u>listen</u>	material	<u>morning</u>
little	<u>matter</u>	<u>most</u>
<u>live</u>	may	mother
<u>local</u>	maybe	<u>move</u>
<u>long</u>	mean	<u>movement</u>
<u>look</u>	measure	movie
<u>lose</u>	medium	mr
loss	<u>meet</u>	mrs
<u>lot</u>	<u>member</u>	<u>much</u>
<u>love</u>	memory	<u>music</u>
<u>low</u>	mention	<u>must</u>
machine	<u>message</u>	<u>myself</u>
magazine	method	<u>name</u>
main	<u>middle</u>	<u>nation</u>
maintain	might	<u>national</u>
<u>major</u>	mile	natural
<u>make</u>	military	nature
male	mind	<u>near</u>
<u>man</u>	mine	<u>nearly</u>
<u>manage</u>	minute	necessary
management	miss	<u>need</u>
<u>manager</u>	model	<u>network</u>
<u>many</u>	<u>modern</u>	<u>never</u>
mark	<u>moment</u>	<u>new</u>
market	<u>money</u>	<u>news</u>

<u>newspaper</u>	once	party
<u>next</u>	<u>one</u>	pass
nice	<u>only</u>	<u>past</u>
<u>night</u>	<u>open</u>	patient
<u>no</u>	operate	pattern
nor	operation	pause
normal	<u>opinion</u>	<u>pay</u>
<u>not</u>	opportunity	<u>people</u>
note	option	<u>per</u>
<u>nothing</u>	<u>or</u>	percent
<u>notice</u>	<u>order</u>	perform
<u>now</u>	organization	performance
<u>number</u>	<u>organize</u>	<u>perhaps</u>
object	<u>original</u>	period
<u>obviously</u>	<u>other</u>	<u>person</u>
occur	<u>out</u>	personal
<u>of</u>	<u>outside</u>	phone
<u>off</u>	<u>over</u>	pick
<u>offer</u>	<u>own</u>	<u>picture</u>
office	page	<u>piece</u>
officer	<u>paint</u>	<u>place</u>
official	<u>paper</u>	<u>plan</u>
<u>often</u>	<u>parent</u>	<u>plant</u>
oil	<u>park</u>	<u>play</u>
<u>okay</u>	<u>part</u>	<u>player</u>
<u>old</u>	<u>particular</u>	please
<u>on</u>	<u>particularly</u>	<u>point</u>

police	process	raise
policy	produce	range
political	product	rate
poor	production	rather
<u>popular</u>	professional	<u>reach</u>
population	profit	<u>read</u>
position	<u>program</u>	<u>ready</u>
positive	project	<u>real</u>
possibility	promise	<u>realize</u>
possible	property	<u>really</u>
post	proposal	reason
potential	propose	receive
pound	protect	<u>recent</u>
power	prove	<u>recently</u>
practice	provide	recognize
<u>prefer</u>	<u>public</u>	record
<u>prepare</u>	<u>pull</u>	<u>red</u>
<u>present</u>	purchase	reduce
president	purpose	<u>refer</u>
<u>press</u>	push	reference
pressure	<u>put</u>	reflect
<u>pretty</u>	quality	regard
previous	quarter	region
price	<u>question</u>	relate
private	<u>quickly</u>	<u>relation</u>
<u>probably</u>	<u>quite</u>	<u>relationship</u>
<u>problem</u>	<u>race</u>	release

remain	sale	several
<u>remember</u>	<u>same</u>	shall
replace	<u>save</u>	<u>shape</u>
report	<u>say</u>	share
represent	<u>school</u>	<u>she</u>
require	science	<u>shop</u>
research	score	short
resource	screen	<u>should</u>
respect	<u>sea</u>	show
response	search	<u>side</u>
responsibility	season	sign
<u>rest</u>	<u>seat</u>	significant
<u>restaurant</u>	second	similar
result	section	simple
return	security	simply
review	<u>see</u>	<u>since</u>
<u>right</u>	seek	<u>sing</u>
<u>ring</u>	<u>seem</u>	single
<u>rise</u>	<u>sell</u>	sister
risk	<u>send</u>	<u>sit</u>
<u>road</u>	sense	<u>site</u>
rock	separate	situation
<u>role</u>	series	size
<u>room</u>	<u>serious</u>	<u>skill</u>
<u>round</u>	serve	<u>sleep</u>
<u>rule</u>	service	small
<u>run</u>	set	smile

<u>so</u>	<u>star</u>	suggest
social	<u>start</u>	summer
society	<u>state</u>	supply
solution	statement	<u>support</u>
<u>some</u>	station	suppose
somebody	<u>stay</u>	sure
<u>someone</u>	step	<u>surprise</u>
something	<u>still</u>	system
<u>sometimes</u>	stock	<u>table</u>
<u>son</u>	<u>stop</u>	<u>take</u>
<u>song</u>	store	<u>talk</u>
<u>soon</u>	<u>story</u>	target
<u>sorry</u>	strategy	task
sort	street	<u>tax</u>
<u>sound</u>	strike	<u>teach</u>
source	strong	<u>teacher</u>
space	structure	<u>team</u>
speak	<u>student</u>	technology
<u>special</u>	study	television
specific	<u>stuff</u>	<u>tell</u>
speech	style	tend
<u>spend</u>	subject	term
<u>sport</u>	<u>success</u>	test
staff	<u>successful</u>	<u>than</u>
<u>stage</u>	such	<u>thank</u>
<u>stand</u>	<u>suddenly</u>	<u>that</u>
standard	suffer	<u>the</u>

<u>themselves</u>	traditional	<u>very</u>
<u>then</u>	<u>train</u>	<u>view</u>
theory	<u>travel</u>	<u>village</u>
<u>there</u>	<u>treat</u>	<u>visit</u>
therefore	treatment	voice
<u>they</u>	tree	vote
<u>thing</u>	trip	wait
<u>think</u>	trouble	<u>walk</u>
<u>this</u>	<u>true</u>	<u>wall</u>
though	<u>try</u>	<u>want</u>
<u>through</u>	<u>turn</u>	<u>war</u>
<u>throughout</u>	type	<u>watch</u>
throw	unclear	<u>water</u>
thus	<u>under</u>	<u>way</u>
<u>time</u>	understand	<u>we</u>
<u>to</u>	<u>unit</u>	<u>wear</u>
today	<u>university</u>	<u>week</u>
<u>together</u>	<u>until</u>	weekend
<u>tomorrow</u>	<u>up</u>	weight
<u>too</u>	upon	welcome
<u>top</u>	<u>use</u>	<u>well</u>
total	useful	<u>what</u>
touch	usually	<u>whatever</u>
<u>toward</u>	value	<u>when</u>
town	variety	<u>where</u>
track	various	<u>whether</u>
trade	version	<u>which</u>

while

with

would

white

within

write

who

without

wrong

whole

woman

yeah

why

wonder

year

wide

word

yes

wife

work

yesterday

will

worker

yet

win

world

you

window

worry

young

wish

worth

yourself

**APPENDIX VI: HEADWORDS OF THE SECOND 1,000 MOST FREQUENT
ENGLISH WORD LIST FOUND IN HEADWAY PRE-INTERMEDIATE**

abandon	afford	arrange
abroad	<u>afraid</u>	arrangement
absence	<u>aid</u>	<u>arrest</u>
<u>absolutely</u>	aircraft	artist
abuse	alive	aside
academic	alternative	assess
<u>accident</u>	<u>amaze</u>	assessment
accommodation	analyze	asset
accompany	<u>ancient</u>	assistant
accuse	<u>angry</u>	association
achievement	<u>announce</u>	assumption
acknowledge	annual	atmosphere
acquire	anybody	attach
active	<u>anywhere</u>	attitude
actor	apart	attract
actual	apparently	attractive
<u>ad</u>	appeal	audience
additional	appearance	<u>award</u>
administration	appoint	aware
admit	appointment	background
adopt	appreciate	bag
advertise	appropriate	<u>ball</u>
advertisement	approve	ban
advice	approximately	band
advise	arise	basically
affair	<u>army</u>	battle

beach	brain	<u>cat</u>
beat	branch	category
beauty	brand	celebrate
<u>bedroom</u>	breakfast	chain
belief	breast	chair
belong	<u>breath</u>	chairman
besides	<u>breathe</u>	channel
bet	bridge	chapter
<u>bike</u>	<u>brief</u>	characteristic
bind	<u>bright</u>	chart
bird	broad	cheap
<u>birth</u>	brown	chemical
blame	budget	chief
block	burn	<u>childhood</u>
blood	busy	<u>chip</u>
<u>blow</u>	calculate	circle
boat	calm	circumstance
bomb	camera	citizen
bond	camp	civil
bone	cancer	classic
border	capable	climate
<u>bore</u>	capacity	climb
borrow	<u>capture</u>	closely
boss	careful	coach
bother	carefully	coast
bottle	cash	<u>coat</u>
bottom	cast	code

coffee	concept	cook
collapse	concert	cool
colleague	conclude	cope
<u>collect</u>	conduct	<u>copy</u>
<u>collection</u>	confidence	core
column	confirm	<u>corner</u>
combination	conflict	corporate
combine	confuse	corporation
<u>comfort</u>	connect	correct
<u>comfortable</u>	connection	council
command	consequence	count
commercial	conservative	county
commission	considerable	<u>crash</u>
commit	consideration	<u>creation</u>
commitment	consist	crime
committee	consistent	<u>criminal</u>
communicate	constant	crisis
comparison	construct	criterion
compete	construction	critic
competitive	consumer	critical
<u>complain</u>	content	criticism
complaint	context	crop
complex	contrast	crowd
complicate	contribute	crucial
component	contribution	cry
concentrate	convention	cultural
concentration	convince	<u>cup</u>

currently	desk	dry
<u>cycle</u>	destroy	duty
dad	device	<u>ear</u>
<u>danger</u>	diet	earth
<u>dangerous</u>	differ	<u>east</u>
dear	dinner	<u>edge</u>
debt	directly	editor
decade	disappear	educate
declare	disappoint	educational
decline	discipline	effective
decrease	discount	effectively
defeat	dish	efficient
defend	disk	egg
defense	display	elect
definitely	distance	electronic
definition	distinguish	element
delay	distribute	elsewhere
delight	district	email
deliver	divide	emerge
delivery	division	emergency
democracy	domestic	emotion
demonstrate	<u>double</u>	emotional
<u>deny</u>	dozen	emphasize
derive	draft	<u>employ</u>
<u>description</u>	drama	employer
deserve	dramatic	<u>employment</u>
desire	<u>driver</u>	empty

enable	<u>excite</u>	<u>famous</u>
encounter	excuse	<u>fan</u>
<u>enemy</u>	executive	farm
engage	exhibit	farmer
engine	exhibition	fashion
engineer	existence	fat
enhance	expand	fault
enormous	expectation	favor
ensure	expense	federal
entire	expensive	fee
entirely	experiment	feed
entry	expert	fellow
environmental	explanation	finance
equal	<u>explore</u>	finger
equally	export	<u>flat</u>
equipment	expose	flight
error	expression	flow
<u>escape</u>	extent	flower
essential	<u>extra</u>	folk
estate	extreme	<u>football</u>
<u>eventually</u>	extremely	forest
<u>everywhere</u>	factory	formal
examination	failure	forth
examine	fair	frame
excellent	fairly	freedom
exception	faith	<u>freeze</u>
exchange	familiar	frequently

fresh	guide	hurt
friendly	<u>gun</u>	<u>ice</u>
fruit	habit	ideal
fuel	hall	identity
<u>fully</u>	handle	ignore
fundamental	hang	ill
<u>funny</u>	hardly	illness
furthermore	<u>hat</u>	illustrate
gap	<u>hate</u>	<u>immediate</u>
gas	healthy	implement
gather	<u>heat</u>	implication
gene	heavy	imply
generate	<u>hell</u>	import
gentleman	helpful	importance
gift	<u>hi</u>	impose
glad	<u>hide</u>	impossible
<u>glass</u>	highlight	<u>impression</u>
<u>global</u>	highly	improvement
gold	hill	incident
grade	hire	increasingly
graduate	historical	<u>independent</u>
grant	hole	index
grateful	honor	industrial
gray	horse	inform
guarantee	host	initial
guard	household	initiative
guest	hunt	<u>injury</u>

insist	justice	literature
install	kick	load
institution	king	loan
instruction	<u>kiss</u>	locate
instrument	kitchen	location
insurance	knock	lock
integrate	label	<u>lovely</u>
intellectual	labor	luck
intelligence	lady	lucky
intend	<u>lake</u>	lunch
intention	landscape	mail
interaction	largely	mainly
internal	latter	majority
interpretation	launch	manner
introduction	lawyer	manufacture
invest	lay	manufacturer
investigate	leadership	map
investigation	lean	marriage
investor	<u>left</u>	mass
invite	leg	massive
island	legislation	master
joint	length	mathematics
joke	<u>lesson</u>	maximum
journalist	liberal	meal
<u>journey</u>	library	meanwhile
judgment	license	meat
<u>jump</u>	lift	mechanism

medical	native	occupy
medicine	<u>nearby</u>	odd
<u>mental</u>	necessarily	<u>online</u>
merely	neck	onto
metal	negative	oppose
milk	negotiate	<u>opposite</u>
minimum	negotiation	opposition
minister	neighbor	<u>ordinary</u>
minor	neighborhood	origin
minority	neither	originally
mission	net	otherwise
<u>mistake</u>	nevertheless	ought
<u>mix</u>	<u>nobody</u>	ourselves
mobile	<u>noise</u>	outcome
monitor	none	outline
moral	normally	output
moreover	<u>north</u>	overall
mostly	<u>northern</u>	owner
motion	notion	pack
mountain	novel	package
mouse	nuclear	pain
mouth	nurse	pair
multiple	objective	panel
murder	observation	participant
<u>museum</u>	observe	participate
musical	obvious	partly
narrow	occasion	<u>partner</u>

passage	plus	procedure
passenger	pocket	proceed
path	politician	producer
payment	politics	professor
<u>peace</u>	poll	progress
peak	pool	promote
percentage	pop	proper
<u>perfect</u>	possibly	properly
<u>perfectly</u>	powerful	proportion
permanent	practical	prospect
permit	predict	protection
personality	premise	protein
personally	presence	<u>protest</u>
perspective	presentation	proud
phase	preserve	provision
<u>photo</u>	presidential	pursue
<u>photograph</u>	prevent	qualify
phrase	previously	<u>quick</u>
<u>physical</u>	primarily	quiet
pilot	primary	quote
<u>plain</u>	prime	radio
<u>plane</u>	principal	<u>rain</u>
plastic	principle	rank
plate	print	rapidly
pleasure	prior	rare
plenty	priority	reaction
plot	<u>prison</u>	<u>reader</u>

reality	<u>repeat</u>	rural
reasonable	<u>reply</u>	rush
recall	reporter	sad
recommend	representative	safe
recommendation	reputation	safety
recover	request	salary
reduction	requirement	sample
reform	researcher	satisfy
<u>refuse</u>	reserve	<u>scale</u>
regional	resident	scene
register	resolution	schedule
regular	resolve	scheme
regulation	<u>respond</u>	scientific
reject	responsible	scientist
relative	retain	secondly
relatively	retire	<u>secret</u>
relax	reveal	secretary
relevant	revenue	sector
<u>relief</u>	revolution	secure
religion	reward	seed
religious	<u>rich</u>	select
rely	ride	selection
remark	<u>river</u>	self
remind	roll	senior
remove	root	sentence
<u>rent</u>	route	sequence
repair	row	<u>seriously</u>

session	slightly	stable
settle	slip	<u>status</u>
settlement	<u>slow</u>	steal
severe	<u>slowly</u>	<u>stick</u>
sex	smell	<u>stone</u>
sexual	smoke	<u>storm</u>
shake	<u>snow</u>	<u>straight</u>
sharp	<u>soft</u>	strange
sheet	<u>software</u>	strength
shift	<u>soldier</u>	stress
ship	solve	stretch
shirt	somehow	<u>strongly</u>
shock	somewhat	struggle
shoe	<u>somewhere</u>	studio
shoot	soul	substantial
<u>shot</u>	south	succeed
shoulder	southern	sudden
shout	speaker	sufficient
<u>shut</u>	specifically	suggestion
sick	speed	<u>suit</u>
sight	spell	suitable
signal	spirit	sum
significantly	split	<u>sun</u>
silence	spot	surely
skin	spread	surface
sky	<u>spring</u>	surround
slide	square	<u>survey</u>

<u>survive</u>	ticket	typical
suspect	tie	unable
sweet	till	<u>unemployment</u>
swim	tiny	unfortunately
swing	tip	union
<u>switch</u>	<u>tire</u>	unique
talent	title	unless
tall	<u>tone</u>	<u>unlike</u>
tape	tonight	unusual
taste	tool	update
<u>taxi</u>	topic	upper
tea	totally	urban
tear	<u>tough</u>	urge
technical	<u>tour</u>	<u>user</u>
technique	tourist	usual
telephone	toy	valuable
temperature	tradition	variable
temporary	traffic	vary
tennis	transfer	vast
terrible	transport	vehicle
text	trend	via
<u>theater</u>	<u>trial</u>	<u>victim</u>
theme	troop	victory
thick	truly	video
thin	trust	violence
threat	<u>truth</u>	vision
threaten	twice	visitor

volume

weapon

winter

volunteer

weather

witness

voter

wed

wonderful

wage

west

wood

wake

wheel

writer

warm

whereas

yard

warn

widely

yellow

wash

wild

yield

waste

wind

youth

wave

wine

weak

winner

**APPENDIX VII: HEADWORDS OF THE ACADEMIC WORD LIST FOUND IN
HEADWAY PRE-INTERMEDIATE**

abdominal	aggregate	approximation
absorb	agriculture	arbitrary
absorption	airplane	archaeology
accelerate	algebra	architect
acceleration	algorithm	array
accent	alien	arrow
accumulate	alliance	articulate
accumulation	allocate	artifact
accuracy	allocation	artificial
accurately	altitude	artistic
acid	aluminum	artwork
acidic	amino	aspect
activate	amongst	assembly
actively	amplitude	assert
acute	analogy	assignment
adaptation	ancestor	athletic
adaptive	anthropology	atom
adjacent	anti	atomic
admission	antibiotic	auction
adolescent	antibody	audio
adverse	antiquity	audit
aerosol	appendix	authority
aesthetic	applause	autonomy
affirm	apple	availability
afterward	approximate	axiom

axis	bulk	circulate
backward	bullet	circulation
bacteria	bundle	civilization
bacterial	calcium	clarify
<u>bang</u>	calculation	classification
bargain	calculator	classify
barrel	calculus	classroom
basin	campus	clay
bat	candidate	clever
beam	capillary	click
behavioral	capitalism	client
bilingual	capitalist	clinic
binary	carrier	clip
biodiversity	cattle	clone
biologist	censor	closure
biology	characterization	clue
bizarre	cheat	coefficient
blank	cheer	cognitive
bleed	chemistry	coherent
bodily	chemotherapy	collective
bonus	chess	colonial
bound	chloride	colony
bracket	chromosome	comma
breakdown	chronic	commentary
broadly	chunk	commodity
bubble	cinema	commonly
bucket	circa	communicative

communist	conscious	correction
compact	consciousness	correctly
comparable	consensus	correlate
comparative	consent	correlation
compensate	conservation	correspondence
competence	conserve	corruption
competent	consonant	cortex
complement	constitution	credibility
complication	constrain	criteria
comply	consultation	critically
composer	consumption	critique
composite	container	crude
comprehension	continent	crystal
computation	continuity	cue
conceive	contour	cure
conception	contradict	curriculum
conceptual	contradiction	cyclic
conditional	contradictory	cylinder
conduction	contrary	damp
cone	controversy	deadline
conference	converge	decay
configuration	convergence	deceive
confine	coordinate	defect
confound	coordination	deficiency
congruent	cord	definite
connector	coronary	deflection
connotation	corpus	degrade

deliberately	diffusion	duration
delta	dilemma	dye
demonstrator	dilute	dynamic
denominator	dimensional	ecological
denote	dioxide	ecology
dense	directive	economically
<u>dependence</u>	disability	economist
depict	disadvantage	effectiveness
derivative	discharge	elaborate
descendent	discourse	elastic
descriptor	discrete	elasticity
destination	discrimination	electron
detection	displacement	elementary
developmental	dissection	elevate
deviation	dissertation	elevation
diagnose	dissolve	elimination
diagnosis	distribution	elite
diagnostic	disturbance	embed
diagram	diverse	emergence
dialect	domain	emission
diameter	dominance	emit
diary	dominant	emperor
dictate	domination	empirical
dictionary	donor	encode
differential	dose	enforcement
differentiate	drain	enormously
differentiation	drift	entity

entrant	factorial	fungus
enzyme	faculty	fusion
epidemic	fatigue	gauge
epidemiology	feedback	generalization
equality	fertility	generalize
equilibrium	fetal	genetically
equivalence	fever	genetics
erase	fiber	ghost
essence	fin	globalization
essentially	finite	goat
estimation	flesh	goodness
ethical	flexibility	goods
ethics	flip	gradient
evident	fluid	gram
evolutionary	flux	grammatical
<u>ex</u>	footnote	graph
<u>execute</u>	formally	grasp
execution	formulation	gravity
exit	forum	grid
expertise	fossil	gross
explicit	founds	gut
explicitly	fraction	habitat
exploit	fracture	halfway
exponential	freely	handout
fabric	friction	harvest
facet	fringe	hawk
facilitate	fundamentally	headquarter

hedge	independently	insect
helix	indicator	insert
hepatitis	indifference	instability
herbicide	indigenous	instinct
hierarchy	indirect	integral
hip	individually	integration
historically	induce	intensity
homework	induction	intensive
horizon	industrialization	interact
horizontal	industrialize	interestingly
hormone	inequality	interface
hydrogen	inevitably	interfere
identical	infect	intermediate
identification	infectious	interrupt
ideology	inference	interval
illusion	inferior	intervene
immune	infinite	interviewer
impact	infinity	<u>invade</u>
implicit	influential	invasion
importantly	informal	inversion
impulse	inhibit	invert
incidence	inhibition	ion
incline	initiate	irrelevant
inclusion	initiation	irrigation
incredible	inject	jazz
<u>incredibly</u>	injection	junior
incumbent	innate	justification

kidney	loop	mercury
kilometer	lump	merge
lab	lung	messenger
lateral	machinery	metabolism
layout	magnetic	metaphor
leaf	magnitude	methodology
lecturer	mall	micro
legend	manipulate	<u>mid</u>
legitimate	manipulation	migrate
leisure	manual	migration
lever	manuscript	millimeter
lexical	marble	mineral
liable	marginal	minimal
lifestyle	marker	minimize
lifetime	marrow	minus
likelihood	maternal	missile
likewise	mathematical	mobility
limb	matrix	modification
linear	maximize	mole
linguistic	meaningful	molecular
linguistics	mechanic	molecule
liter	mechanical	momentum
liver	media	monetary
locally	mediate	monkey
locus	membrane	monopoly
logical	memorize	morality
longitudinal	mentor	morphological

morphology	non	oscillation
mortality	nonetheless	outer
motif	nonlinear	outlet
motive	norm	overhead
multi	notation	overlap
multinational	novice	overview
multiply	nucleus	oxidize
mutation	null	oxygen
myth	numerical	painful
naked	nutrient	par
namely	objection	paradigm
nasty	obscure	paradox
nationalism	observer	parameter
neat	obtain	parcel
necessity	occupation	pardon
neo	occurrence	parental
nest	offspring	parenthesis
neural	onset	partial
neuron	onwards	partially
neutral	optical	particle
nicely	optimal	partition
niche	optimum	pathway
nitrogen	oral	peasant
noble	organ	periodic
node	organism	peripheral
noisy	orient	pest
nominal	orientation	pesticide

phenomenal	practitioner	proposition
philosopher	pragmatic	protocol
philosophical	pre	proton
phonological	precede	psychiatric
phosphate	precipitate	psychologist
photographic	precipitation	psychology
physically	predator	publish
physician	prediction	pulse
physics	predominantly	punch
physiological	prejudice	punish
<u>pi</u>	preliminary	punishment
planner	presume	purely
plantation	prevalence	puzzle
plausible	prey	qualitative
plug	primer	quantitative
plural	primitive	quantum
polar	probe	questionnaire
pole	problematic	<u>quiz</u>
politically	processor	quotation
portfolio	productive	rack
portray	productivity	radar
portrayal	profound	radiation
positively	progression	radius
poster	progressive	rainfall
postgraduate	projection	randomize
potassium	prominent	randomly
<u>powder</u>	pronounce	rational

rationality	residual	semi
ray	residue	seminar
reactive	resistant	sensation
reactor	respiratory	sensible
readily	retrieve	sensitivity
realism	revolutionary	sensory
realistic	rewrite	separately
realm	rhetoric	separation
receptor	rhythm	sexuality
recipe	ridiculous	shallow
reconstruct	ritual	shortly
regime	robot	shuttle
regression	rope	similarity
rehabilitation	rotate	simplify
reinforce	rotation	simulate
rejection	rub	simulation
reliability	ruler	simultaneously
render	scatter	sin
repertoire	scenario	singular
replacement	scholarship	sketch
replicate	scripture	skip
replication	scroll	slab
reproduce	secrete	slash
reproduction	sediment	slavery
republic	selective	slot
resemble	semantic	snake
reservoir	semester	sneeze

sniff	static	sustainable
socialize	statistical	swap
socially	statistically	swell
sodium	statistics	<u>sword</u>
solar	stereotype	syllable
soluble	stimulus	syllabus
solute	straightforward	symbolic
solvent	strand	syndrome
sometime	strategic	syntactic
sophisticate	strictly	syntax
span	stripe	synthesis
spatial	sub	synthetic
specialty	subjective	systematic
specification	subset	tech
specimen	substitution	technically
spectrum	substrate	temporal
sperm	subtle	tempt
sphere	subtract	tense
splice	sufficiently	terminal
sponsorship	suicide	terminology
spontaneous	<u>super</u>	<u>terribly</u>
spray	superior	textbook
stabilize	supposedly	theorem
stack	surgeon	theorist
stadium	surgical	thereby
stance	surplus	thermal
standardize	susceptible	thesis

thickness	tricky	variability
thread	trivial	variance
threshold	<u>tropical</u>	variant
thumb	tumor	vector
tolerance	turbulent	vegetation
ton	tutor	vein
toxic	ultimate	velocity
tract	undergraduate	verbal
traditionally	undermine	vertical
trait	underneath	viable
trajectory	unemployed	virtue
trans	unify	vitamin
transaction	unintelligible	vocabulary
transcribe	unity	volition
transcription	unstable	vowel
transformation	uplift	watershed
translation	upward	wavelength
transmission	urine	weave
transmit	usage	wheat
transparency	utility	whereby
transplant	utilize	whichever
trauma	utterance	whoever
treaty	vague	widespread
tremendous	valid	wisdom
triangle	validity	workshop
tribe	valve	yeast

APPENDIX VIII: OFF-LIST WORDS OF HEADWAY PRE-INTERMEDIATE

actresses	fierce	porch
adore	fighters	prince
agers	flavoured	protestors
ambulance	foreigners	queen
annoyed	gymnastics	reminders
babes	hacker	renewed
beard	hackers	risky
bitterly	hq	robe
bolt	hugely	ross
born	hunter	slum
bullied	intelligent	soccer
cab	jumper	sporty
carp	jungle	stunt
carriage	km	stunts
celebrities	knight	stuntwoman
chaos	licked	stuntwomen
chatty	lightning	teen
chef	lollies	terrified
commemorative	Iraq	thumping
cookies	martial	thunder
crept	memorabilia	tiger
crisps	memorabl	trampolining
cursed	mudd	trophies
cyber	mysterious	unexpected
delicious	nicknamed	urgently
doll	notorious	veggie
engagement	oh	viewer
etc	organizer	ward
euro	patent	wink
fairy	pillow	woolly

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