

ARTICLE

## A Corpus-Based Analysis of Four Near-Synonymous English Verbs

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### ABSTRACT

The differences that exist among near-synonyms seem to be a thorny issue for native and non-native speakers of English. This study aims to highlight the similarities and differences between four near-synonymous verbs: *investigate*, *explore*, *scrutinize*, and *examine*, with a focus on their dialectal variations, frequencies, genre distributions, and colligational patterns. Data were gathered from the Corpus of Contemporary American English (COCA) and the British National Corpus (BNC). The findings reveal that while these verbs are often considered near-synonyms, they are not fully interchangeable across contexts. *Explore* and *examine* have scored the highest frequencies across both corpora, especially in academic genres in American English. In contrast, British English exhibits more variation, with *investigate* and *explore* appearing more frequently in non-academic texts. Conversely, *scrutinize* has scored the lowest in both dialects and is primarily confined to academic contexts. Additionally, these verbs are seldom found in spoken genres. The analysis of colligational behavior (i.e., grammatical patterns) demonstrates that these verbs share many grammatical patterns, though subtle differences in their usage prevent complete interchangeability. The COCA provides a wider range of grammatical patterns than those in the BNC. These findings underscore the complexity of near-synonymous verbs and the importance of context in their usage.

**Keywords:** Academic Terms; Corpora; COCA; BNC; Dialects; Genre; Teaching, Learning; Lexical Relations

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## 1. Introduction

Vocabulary learning is one of the pillars of mastering any language, serving as a key component for successful, comprehensive communication in which language users exchange their thoughts and feelings. This idea is supported by Zeeland and Schmitt<sup>[1]</sup>, who emphasized how the amount of vocabulary knowledge positively affects reading comprehension and listening comprehension. This suggests that a large set of vocabulary is considered a solid stepping stone to higher levels of fluency. Alsager and Milton<sup>[2]</sup> added that “a vocabulary knowledge threshold of 5000 and above is necessary for L2 learners to undertake international education; below this volume of vocabulary, they risk failure or academic hardship during their studies.” This reinforces the idea that vocabulary is an essential component of communication, without which successful communication is impossible. Schmitt<sup>[3]</sup> reports that “lexical knowledge” is the backbone for both “communicative competence” and “second language acquisition.” Similarly, Nation<sup>[4]</sup> stresses the interwoven relationship between “lexical repertoire” and “language use”: one’s vocabulary knowledge enhances language use, which in turn increases the individual’s vocabulary repertoire.

Many scholars, including Nation<sup>[5]</sup>, highlight the importance of vocabulary acquisition due to its essential role in constructing spoken and written texts. Acquiring vocabulary contributes to all language skills—listening, writing, speaking, and reading—whether in English as a second or foreign language. Nunan<sup>[6]</sup> argues that developing a sufficient lexical repertoire is crucial for effective second language use. Without a wide set of vocabulary, learners will struggle to communicate comprehensibly, even after learning grammar and functions. However, near-synonyms present unique challenges. Schmitt<sup>[3]</sup>, Schmitt & Schmitt<sup>[7]</sup>, and Nation<sup>[4]</sup> point out that selecting the best word for specific contexts can be difficult, as words with similar meanings often carry nuanced differences in meaning, connotation, and usage. It is worth mentioning that near-synonyms as semantically related words are sometimes used when speakers cannot recall the exact word on spot<sup>[8]</sup>. Thus, they misuse the exact word.

Knowing the differences among near-synonymous words is of great use for linguists due to several reasons. Firstly, knowing the nuances of meaning and the collocational behavior is beneficial, especially with the existence of machine translation and natural language processing. To

elaborate, by knowing the semantic and syntactic differences among the four verbs under investigation, linguists can work to improve the accuracy of machine translation<sup>[9]</sup>. In her study, she stressed on the coexistence of human expertise and machine translation tools to enhance overall translation accuracy and fluency. The same ideas was emphasized by Khoury et al.<sup>[10]</sup>, who paid special attention to revise and post-edit translation works before the final submission, in which even choosing the best synonym is crucial and part of the translator’s job. Therefore, understanding the distinctions among semantically related words produces a more nuanced and precise text. Secondly, recognizing dipartites among near-synonyms help language teachers and learners to understand and use such words correctly in their writing and speaking<sup>[11]</sup>. Thirdly, although the detailed analysis of nuanced lexical differences might often be beyond the scope of even advanced EFL learners, the findings can still offer insights relevant to curricula planning and resource development.

Laufer<sup>[12, 13]</sup> highlights that near-synonyms can be problematic since they cannot be used interchangeably in all contexts, given that absolute synonyms do not exist in any language<sup>[14]</sup>. These words often differ in connotation, formality, and semantic prosody<sup>[15]</sup> or exhibit semantic preferences<sup>[16]</sup>. Even native speakers encounter difficulties articulating these subtle distinctions, although they use near-synonyms correctly in practice<sup>[17, 18]</sup>. For this reason, tools such as corpus linguistics are invaluable, as they enable researchers to study these differences using naturally occurring data.

According to McEnery and Wilson<sup>[19]</sup>, corpus linguistics is a methodology that involves the use of computerized, naturally occurring texts—either written or transcribed utterances—for linguistic analysis. This approach provides new insights into language structure, including grammatical patterns and word behavior. Through corpora, language users can empirically explore collocations, syntactic patterns and semantic preferences, resolving confusion between similar words. Since the existence of corpora and besides dictionaries, several corpus studies were conducted either by using ready corpora such as BNC, COCA and sometimes Noble Qur’an and Sunna as corpora cf.<sup>[20–23]</sup>.

This study examines a set of near-synonymous verbs—*investigate*, *examine*, *scrutinize*, and *explore*—to

analyze their frequency, genre distribution, and grammatical patterns across two major corpora: the British National Corpus (BNC) and the Corpus of Contemporary American English (COCA). Previous studies have relied on a single corpus, which limited the representativeness of their findings. In contrast, this study utilizes two corpora to account for variations in British and American English. Biber, Conrad, and Reppen<sup>[24]</sup> explain that corpora provide insights into word senses by examining their patterns and collocations. Bolinger<sup>[25]</sup> also noted that differences in grammatical structure correspond to differences in meaning, while Francis and Hunston<sup>[26]</sup> emphasized the connection between patterns and meaning.

The results of this study may have significant implications not only for linguists, translators and lexicographers but also for curriculum designers and EFL teachers. Although the level of elaboration in this research may exceed the practical needs of EFL learners, understanding the nuances of near-synonyms could aid in designing better teaching materials. The findings may also enrich linguistic research on lexical semantics by shedding light on how similar verbs behave in different varieties of English. Additionally, the results may be valuable for lexicographers and curriculum planners in refining language resources and instructional strategies. Moreover, the results might benefit those specialized in computational linguistics, machine translation and natural language processing.

This study seeks to answer the following questions:

1. Which of the following verbs—*investigate*, *examine*, *scrutinize*, and *explore*—is the most frequently used in the BNC and COCA?
2. In which genres are these four verbs used across the BNC and COCA?
3. According to the BNC and COCA, what grammatical patterns (colligations) are associated with each of these verbs?

## 2. Theoretical Literature

### 2.1. Corpus Linguistics and Language Teaching

Corpus is “a collection of texts which is stored on some kind of digital medium and used by linguists to retrieve lin-

guistic items for research or by lexicographers for dictionary-making<sup>[27]</sup>.” Crystal<sup>[28]</sup> defined a corpus as a collection of linguistic data, either compiled as written text or transcription of recorded speech. Corpus linguistics is the “study of language in use through corpora” as reported by. One of the major advantages of corpora is speed and reliability as a user can investigate more words, phrases and structures and get more accurate frequencies per each. It is also beneficial when the intuition of native speakers fails.

Since grammar and vocabulary are not the only aspects of a language, scholars are now focusing on language in use. The main goal of corpus linguistics is to enable language users to compare various words that are counted as synonyms within a context. Consequently, the importance of corpus is highlighted through the available features it provides. That is to say, a corpus allows teachers and students to explore the patterns of lexicons, grammar, semantics, pragmatics and textual features.

Moreover, the behavior of the abovementioned features has been the subject of new research due to corpus methodologies, as is already indicated. It is always feasible to learn new things about language since corpus linguistics bases itself on the idea that language changes depending on context, location, and time.

Another benefit of corpus-based approaches is that their analysis is always based on empirical rather than elicited data. Since many native speakers rely heavily on their intuition about language and which is often wrong<sup>[29]</sup>, the formation of corpora has been a must. Teachers cannot rely on the native speakers’ knowledge, intuition and performances to come up with accurate and complete descriptions of the language. To illustrate, if a native speaker of Arabic was asked to tell the differences between ‘sana’ and ‘ʔæm’ which both mean ‘year’, they would not be able to tell these differences even though they can use them correctly in all contexts. Therefore, it would be helpful to resort to naturally occurring data along with native speakers’ intuitions and introspections.

### 2.2. Criteria for Distinguishing Near-Synonyms

Many linguists believe that it is important to set specific criteria to distinguish near-synonymous words. Cruse<sup>[14]</sup>, Palmer<sup>[30]</sup>, Jackson & Amvela<sup>[15]</sup> and Phoocharoensil<sup>[16]</sup> rely on the following criteria to distinguish near-synonyms: degree of formality, dialect, connotation, collocational be-

haviour and semantic preference. In addition, Palmer<sup>[30]</sup> and Cruse<sup>[14]</sup> highlight the clear effect of the stylistic variations among different geographical areas on the use of near-synonyms. They have also coined the terms *intranational* to represent different dialects within the same country in different regions, and *international* to represent a language that is spoken among different countries as English. Kachru<sup>[31]</sup> and Widdowson<sup>[32]</sup> elaborate on the concept of *international* by providing some examples in American and British English; for instance, *biscuit* (Br.) and *cookies* (Amr.), *chemist* (Br.) and *drugstore* (Amr.).

Moreover, Cruse<sup>[14]</sup> as well as Jackson & Amvela<sup>[15]</sup> identify the degree of formality as another stylistic variation to distinguish near-synonyms. Generally, some words tend to occur in formal contexts while other words tend to occur in informal ones. For instance, Phoocharoensil<sup>[16]</sup> differentiates between *error*, *fault* and *mistake* as *error* commonly appears in formal contexts while the two other nouns tend to appear in informal contexts.

Another criterion to distinguish near-synonyms raised by Cruse<sup>[14]</sup> is the notion of connotation, which is also referred to as expressive variations. Words usually carry either positive, neutral, or negative connotations. Edmonds & Hirst<sup>[17]</sup> relate to this idea by referring to the adjectives *skinny*, *slim/slender*, or *thin*. *Skinny* is more likely used to represent negative connotations, while *slim* and *slender* are used with positive connotations. Similarly, *thin* tends to express a neutral attitude (p. 110).

Moreover, the criterion of the collocational patterns is also used to distinguish near-synonymous words<sup>[14, 16]</sup>. The term *collocation* is defined by Lewis<sup>[33]</sup> as words that tend to co-occur together in all contexts. However, certain collocational restrictions organize collocational behaviour<sup>[30]</sup>. Edmonds and Hirst<sup>[17]</sup> differentiate between the synonymous nouns *task* and *job* as one can say: “a daunting task”, but not “a daunting job.” It is worth mentioning that the concept of semantic preference is strictly associated with the notion of collocations; In other words, Flowerdew<sup>[34]</sup> states that the semantic environment of words affects the words’ occurrences. For instance, the near-synonymous verbs *die* and *pass away* differ in their semantic preference; the use of the verb *pass away* is limited to people, while *die* can be used to talk about people, animals, and plants. Cruse<sup>[14]</sup>, in his book “*Lexical Semantics*”, highlighted the subtle differences found

between the three synonymous nouns, namely *sofa*, *settee*, and *couch*. *Sofa* tends to be more formal and is widely used in British English, unlike *couch* which is more commonly used in American English. As for the noun *settee*, it is an old-fashioned word that had been widely used in British English. Therefore, these synonymous nouns can be differentiated through their degree of formality and dialectical differences. To sum up, it is important to design thorough criteria to distinguish near-synonyms as they cannot be used alternatively in all contexts.

### 2.3. Empirical Literature on Near-Synonymous Verbs

Chung<sup>[35]</sup> studied two near-synonymous verbs in English, namely *create* and *produce*. The researcher highlighted the similarities and differences between them by examining the following four semantic features i.e., ‘property,’ ‘creativity,’ ‘quantity,’ and ‘concreteness’. To this end, the data were collected from two American corpora namely, the Brown Corpus and the Frown Corpus along with AntConc. Then the results were compared to the BNC with the help of the Sketch Engine (SkE). The results showed that these two verbs showed the tendency to occur mostly in the bare infinitive form and the -ed form. The corpus data also demonstrated that the two verbs share two overlapping senses i.e., “bring into existence/cause to happen, occur, or exist” and “create or manufacture a man-made product”. Results related to selectional restrictions showed that *create* tends to appear more with abstract objects if compared to *produce*. The verb *create* appears with objects of fewer quantities and possesses a possibility of employing creativity during the creation. On the contrary, *produce* is followed by objects produced in larger and greater quantities with very low creativity.

Phitayakorn<sup>[36]</sup> conducted a thorough study on the similarities and differences between three near-synonymous verbs, i.e., *advise*, *recommend*, and *suggest* taking into consideration the grammatical patterns and collocational use within British English. He relied on the Longman Dictionary of Contemporary English (LDOCE) along with the BNC, taking 450 concordance lines, for gathering the required data. However, some synonymous verbs had similar noun collocates such as (*advise* and *recommend*, *suggest* and *recommend*). Therefore, they are interchangeable in some contexts. In addition, the study concluded that relying on En-

glish dictionaries is not enough to highlight the similarities and differences between near-synonyms due to the fact that dictionaries neither provide all the possible patterns nor all possible collocates. Hence, concordance lines fill in these gaps and should be advocated to provide supplementary patterns.

GU<sup>[37]</sup> differentiated between two near-synonymous verbs *gain* and *obtain* with special emphasis on their genre, colligation, collocation, and semantic prosody. The data of the study were derived and analyzed through SkE, BNC Web, and Just the Word in addition to the Oxford Dictionary. The findings of the study proved that *obtain* is used more frequently in pure and practical scientific genres in addition to its high frequencies in law and business genres. It collocates mostly with concrete nouns. Additionally, the verb *obtain* has a high presence in the passive voice structure along with a preposition. Regarding the semantic prosody, *obtain* has neutral or mixed semantic prosody. In contrast, the verb *gain* collocates with abstract nouns with positive semantic prosody. Additionally, *gain* is more often found in different genres such as commerce, economy, politics, and social science.

Li<sup>[38]</sup> examined the frequencies of *preserve* and *conserve* in addition to their colligation, collocation, semantic prosody, and semantic preference. The data were gathered from the BNC and the SkE software was used for the analysis. The study revealed that *preserve* has higher frequencies than *conserve*. Moreover, both verbs tend to be used more often in written genres than in spoken ones. In terms of colligation, both verbs are more likely to be used as transitive verbs, but *preserve* has richer and more flexible colligation patterns than *conserve*. With regard to the collocational behavior, each tends to collocate with different words, but some words can collocate with both verbs such as well, either, poorly, and absolutely. Additionally, the overall semantic prosody of *preserve* and *conserve* seems to be either positive or neutral with very little presence of negative semantic prosody.

Phoocharoensil<sup>[16]</sup> explored the collocational behavior of *persist* and *persevere* as well as their distribution among genres, semantic prosody and semantic preference. The data were retrieved from COCA. The findings indicated that both verbs have scored the highest frequency in academic genres and webpages, respectively. Despite sharing the central meaning, both verbs have a distinct set of collocations. In

terms of semantic prosody, while *persist* tends to co-occur with words with negative connotations mainly with unsatisfying situations, *persevere* tends to co-occur with words that have positive connotations with an implication of strong determination and well to accomplish difficult tasks. In addition to this, the study suggested that dictionaries lack certain aspects that are provided in the corpus. For instance, dictionaries deal with *persevere* as an intransitive verb, while COCA proved that the same verb can also be used as a transitive verb.

Séguin<sup>[39]</sup> studied the differences between *explain* and *clarify*. The study specified the ‘spoken’ and ‘written’ genres focusing on the speaker’s gender and age group along with the collocation and colligation frequencies. The data were collected from the BNC and Google Books corpus. The findings showed that *explain* has scored higher frequencies than *clarify*. Additionally, the verb *explain* is used frequently to report speeches while *clarify* is used in some rare contexts with the meaning of making a liquid clear. On the other hand, when the verbs appear in contexts of understanding, *explain* appears frequently as an object in complex clauses. The verb *clarify*, on the other hand, is frequently used as an object in simple clauses. Both verbs refer to abstract elements including general situations (problem, issue), purpose (role, objective), or mental elements (position).

To examine the effectiveness of corpora in articulating the distinctions between near-synonyms, Song<sup>[40]</sup> studied the differences between *damage* and *destroy* as two near-synonyms. Specifically, the researcher investigated them in terms of their frequencies, distribution among different genres, colligation, and collocation in addition to the differences in their meanings and usage. The data were retrieved from the BNC along with the SkE as a corpus tool. The results proved that *destroy* is used more frequently than *damage* in both written and spoken contexts. With regard to collocational behavior, *damage* collocates with lexical words relevant to the concepts of the human body or physical health, while *destroy* collocates with other words relevant to the concept of military affairs along with thoughts and beliefs. Results related to colligation showed that both verbs collocate with object nouns. Unlike *destroy*, *damage* is more frequently used with adverbs as modifiers. Semantically, the core meanings of *damage* and *destroy* are different. For instance, *damage* is more often used to describe something that is no longer used

as before but can be repaired or recovered. In contrast, the core meaning of *destroy* offers more senses for something that no longer exists and hence cannot be used anymore.

Xi<sup>[41]</sup> highlights the importance of employing corpus-based language learning when teaching EFL students. In his study, he used COCA to distinguish between two near-synonymous verbs i.e., *declare* and *announce* in terms of their collocational behavior and their semantic prosody. The study showed that *declare* tends to co-occur mostly with nouns, which strongly hold negative prosodic features, for instance “declare emergency”. In contrast, *announce* seems to be accompanied by words that most likely have strong neutral prosodic features as in “announce an intention”.

Kruawong and Phoocharoensil<sup>[42]</sup> examined the collocational behavior and the distribution of *teach*, *educate*, and *instruct* among different genres. To help achieve the objectives, the data were collected from the LDOCE and COCA with special emphasis on the top-forty noun collocates. Concerning their use, the findings showed that *teach* has the highest presence in the whole corpus. Moreover, the data reflected that three near-synonymous verbs are favored in formal contexts rather than in spoken discourses. In other words, the three verbs have a low presence in informal genres such as spoken, fiction and TV/Movie.

Similarly, Sittironnarit *et al.*<sup>[43]</sup> studied the similarities and differences between the two synonymous verbs *obtain* and *acquire* in terms of their genres, collocational behavior, semantic prosody, semantic preference and pedagogical implications. The researchers relied on the COCA as the main source for this study. The findings revealed that both verbs tend to occur in written genres and thus they have a high degree of formality, yet *obtain* is more common. Additionally, each verb has its unique list of noun collocates. For instance, *acquire* tends to collocate with nouns such as ‘acquire skill’, ‘acquire knowledge’, etc., while *obtain* tends to collocate with nouns as ‘obtain information’, ‘obtain data’, etc. In contrast, both verbs seem to share some noun collocates, though they cannot be used interchangeably in all contexts. Therefore, *acquire* appears to co-occur with words that have the meaning of information or resource, in the context of supplying something. On the other hand, *obtain* is more likely to co-occur with nouns with a wider range of words.

Alanazi<sup>[44]</sup> explored the similarities and differences between *affect* and *impact* in terms of their “lexical collocates,

colligational profile, and semantic prosody”. Specifically, the researcher examined the frequencies per each verb, their adverbial collocates, nominal subject collocates plus nominal object collocates. The data were drawn from the written part of the BNC along with the SkE as a corpus manager and text analysis software. The findings revealed that both *affect* and *impact* were mainly used with abstract entities in the subject position as well as abstract and concrete object collocates. However, there are nuanced differences between the two verbs. First, *affect* seems to appear with more collocates in the written genres in the BNC corpus. Second, *affect* appears to collocate with adverbs that hold negative connotations and nominal subjects. In contrast, the corpus data revealed that *impact* tends to be used in more restricted contexts. In addition, the data revealed that there are some variations with regard to the preference of the syntactic position of adverbials. While *impact* tends to collocate with post-modifying adverbs, *affect* is more likely to collocate with pre-modifying adverbials.

Niwesworakarn *et al.*<sup>[45]</sup> studied the degree of formality and the collocational behavior of three near-synonymous verbs viz., *join*, *participate*, and *attend*. To this end, the data were gathered from the COCA. To examine the collocational behavior, the top thirty collocates with the highest mutual information (MI) scores were examined. The results revealed that *participate* is mostly used in formal contexts since it appears mostly in academic genres. In a similar fashion, *attend* has the same degree of formality as *participate* and they are both frequently used in newspapers. In contrast, the verb *join* records the highest frequencies in informal contexts i.e. spoken, television, and movie subtitles. Moreover, *participate* and *attend* share a set of noun collocates and their noun collocates can overlap. Therefore, they are more synonymous in terms of semantic preference. However, *join* tends to be the least synonymous across these three verbs as it has its own set of noun collocates.

To sum up, the reviewed literature seems to be divided into two groups. The first group focuses on different near-synonymous verbs based on a set of factors with a special focus on one variety either British as in<sup>[38, 40, 44]</sup> or American )see<sup>[13, 31, 43, 45]</sup>. The second group addressed one dialect i.e., one corpus and one dictionary like the ones conducted by<sup>[36, 37, 42]</sup>. Therefore, the researchers argue that the reported literature suffers from certain limitations such as the

focus on one dialect by resorting to a single corpus in addition to ignoring the dictionaries along with corpora.

### 3. Study Design

This study aims to find out the similarities and differences among the following four synonymous verbs, namely *investigate*, *examine*, *scrutinize* and *explore*. These four verbs are considered as near-synonyms since they share their central meaning of “studying something carefully”. Although there are more words that are near-synonyms as well such as *test*, *study*, *probe*, *consider*, etc. The focus was on these four due to the fact that these four verbs are more frequently used in academic genres and academic texts than the other verbs. Moreover, the four verbs have not yet been studied through the lens of the BNC and COCA in this manner.

The researchers resorted to two main sources, namely the COCA and BNC. COCA is a freely accessible, balanced searchable corpus. It is the most reliable corpus of American English as it is the largest of all. The American corpus accommodates more than a billion words in 485,202 texts (from 1990–2019). These texts are evenly derived from eight different genres, namely spoken, fiction, popular magazines, newspapers, academic texts, TV and movie subtitles, blogs, and other web pages. Additionally, each of these sections has other sub-sections. The British National Corpus (BNC) is another freely, balanced searchable source for archival texts which accommodates 100 million words of wide genres of texts i.e., spoken, fiction, magazines, newspapers, and academic. It was composed by the Oxford University Press in the 1980s- early 1990s. All corpora offer the words under in-

vestigation in contexts along with their genres, collocational behavior, and colligational patterns. It is worth mentioning that all worldwide mostly used corpora are provided with a user-friendly interface that facilitates the usage of all features. According to the web interface, there are seven tabs, namely List, Chart, Word, Browse, Collocates, Compare, and KWIC to ease the process of searching. Each tab offers a different command.

Since the two corpora are different in size in which the COCA is larger than BNC, the COCA frequencies must be normalized. To normalize the frequencies, the researchers divided the absolute frequencies of each verb by the number of words in the corpus i.e., COCA, then the result is multiplied by one million as illustrated in the following equation.

$$\text{NormalizedFr.PM} = \left[ \frac{\text{AbsoluteFr.ofaword/}}{\text{no.ofwordsinacorporus}(1000000000)} * 1000000 \right]$$

## 4. Results and Discussion

### 4.1. Results and Discussion Related to Question Number One

To answer the first question, the researchers visited the website of the English corpora <https://www.english-corpora.org/>. Having chosen the COCA corpus, the researchers used the List command to search for the frequencies of each verb in its present forms viz., *investigate* and *investigates*. Then the results were normalized. The same procedures were followed for the BNC. The results of the two corpora are listed in **Table 1** below.

**Table 1.** Frequencies of the Four Synonymous Verbs in COCA and BNC.

NO.	Verb	COCA			BNC		
		Absolute Fr.	Total Fr.	Fr. PM	Absolute Fr.	Total Fr.	Fr. PM
1	<i>Explore</i>	27968	33762	33.76	2211	2547	25.47
	<i>Explores</i>	5794			336		
2	<i>Examine</i>	26448	32910	32.91	3620	4306	43.06
	<i>Examines</i>	6462			686		
3	<i>Investigate</i>	20095	22072	22.07	2303	2520	25.2
	<i>Investigates</i>	1977			217		
4	<i>Scrutinize</i>	1205	1399	1.40	49	55	0.55
	<i>Scrutinizes</i>	194			6		

Fr.: Frequency; PM: Per Million.

**Table 1** presents the results of the frequencies of the four synonymous verbs in the COCA and BNC. The results

illustrate that the verb *explore(s)* with its present forms has scored the highest frequency of 33.76 PM. They also show

that *examine(s)* have nearly similar highest frequency scoring about 32.91 PM. The verb *investigate(s)* has its own presence in the COCA with a total occurrence of 22.07 PM, while the verb *scrutinize(s)* has recorded the lowest frequency among the four verbs scoring about 1.40 PM.

The results also show that *examine(s)* has the highest frequency in the BNC scoring about 43.06 PM. The corpus data also show that both *explore(s)* and *investigate(s)* have scored very similar frequencies of 25.47 PM and 25.2 PM, respectively. As for *scrutinize(s)*, this verb has the lowest frequency of 0.55 PM in the British dialect.

The overall results show that there are some similarities and differences in terms of the frequencies of the four synonymous verbs in the COCA and BNC. To elaborate, *examine(s)* is more frequently used in British English dialect than in the American English. As for the verb *explore(s)*, the data showed that this verb is less frequently used in the BNC than in the COCA. Interestingly, *investigate(s)* has scored the third rank with some variations in its frequencies. Seemingly, *scrutinize(s)* has registered the lowest frequency in both dialects.

This question has provided us with the frequencies of the four synonymous verbs in both corpora, namely COCA and BNC. The findings revealed that the verbs *examine(s)* and *explore(s)* have scored the highest frequencies i.e., the first two ranks in the two corpora with some variation in their occurrences. To elaborate, *explore(s)* has scored 33.76 PM in COCA and 25.47 PM in BNC. As for the *examine*, it has appeared 32.91 PM in COCA and 43.06 PM in BNC. Apparently, the corpus data unveiled that *investigate(s)* has scored nearly similar frequencies of 22.07 PM in COCA and 25.2 PM in BNC occupying the third rank in both dialects. Moreover, the findings in both corpora have shown that the verb *scrutinize(s)* has recorded the lowest frequency among the four synonymous verbs scoring about 1.40 PM in COCA and 0.55 PM in BNC.

There are various possible explanations for these results. Firstly, the words' etymology that deals with the origins and history of the words. It is possible that some verbs emerged before the other verbs. Therefore, it is worth mentioning that the earlier verbs found, the higher frequencies they have. For instance, according to <https://etymonline.com>, the four verbs

were originally borrowed from Latin. And it is a well-known fact English has borrowed extensively from Latin during different periods of time in different fields like legal, scientific and academic ones. By tracing the etymology, the first appearance and usage of these four verbs, the findings showed that the verb *examine(s)* was first used in the 14th century. Regarding the verb *explore(s)*, this was firstly known and used in the 16th century. Additionally, the verb *scrutinize(s)* has been first used in the 17th century with the current meaning of "to examine closely". Consequently, the earlier the verb appears, the more frequencies it scores. This justification applies to the four verbs except for *investigate(s)*, which has lower frequencies than *explore(s)* although *investigate(s)* appeared earlier. What makes *explore* much more frequent than *investigate* although the latter appeared earlier is the fact that *explore* has a broader meaning with multiple senses due to its literal and figurative usage. For instance, besides using this verb to refer to delving deeper into a certain topic allowing a wide range of ideas and explanations to appear, this verb is used to refer to looking around your environment and trying different new things. As for *investigate*, this verb refers to the structured, methodological search for finding answers/solutions for certain queries/problems. This was also evident by its highest appearance in the academic field according to its distribution among different genres.

Secondly, verbs tend to score higher frequencies if they have undergone a semantic shift in which the meaning and usage of certain words have changed over time in response to different societal, cultural as well as technological desires in the form of narrowing, broadening, metaphor, etc. For instance, in COCA, the verb *examine(s)* was borrowed from Anglo-French examiner, from Latin *examinare* to mean "to put someone to question in regard to knowledge, competence, skill etc.". Then it has been used in criminal contexts. Over time, its usage might have been broadened to be used in educational and academic fields related to conducting research papers, articles, etc. On the contrary, the verb *scrutinize(s)* in both corpora has scored the lowest frequency since its usage might not have been broadened since its existence in the current sense of "examining carefully". Another reason behind the low frequencies of *scrutinize(s)* might be due to its usage in formal contexts of academies, news and magazines.



## 4.2. Results and Discussion Related to Question Number Two

To answer the second question, the researchers again visited <https://corpus.byu.edu> and relied on both COCA and BNC. The researchers then chose the Chart command to view the distribution of the four synonymous verbs in both COCA and BNC among different genres namely, blog, web, TV/M, spoken, fiction, magazine, news and academic genres. Again, since the two corpora are different in size, the frequencies were normalized per million and the results were displayed in **Table 2**. It is worth mentioning that some genres exist in COCA like blog, web and TV and media, but do not exist in BNC and visa versa.

The corpus data show that *investigate(s)* is used more often in the academic genre with a frequency of 56.35 PM. Additionally, it shows that the verb has also a quite good appearance in both the spoken and website genres with occurrences of 34.74 and 30.04 PM, respectively. While for its presence among news, magazines, blogs and TV/Media, it has an average frequency as it is used but less frequently than other genres. However, it is clear that the verb has the lowest frequency of 10.64 PM in fictional works.

Data extracted from the table have shown that *explore(s)* has a similar behavior to the previous verb in terms of the highest frequency in the academic genres where it has registered a frequency of 106.85 PM. Furthermore, the results show that this verb is also more frequently used in magazines, websites, blogs and news with some variation in their frequencies 58.82, 53.2, 41.6, respectively. On the contrary, they illustrate that the verb is less frequently used in TV/Media, fictional areas as well as spoken genres.

The corpus data illustrate that *examine(s)* has a very similar behavior to the two previous ones as they all have the highest frequencies in the academic genre. However, the results illustrate that there is a huge gap between the academic genre and the rest as they all have less frequency. On websites, magazines, blogs and news, the verb is often seen, while on TV/Media, the verb is rarely found scoring a frequency of 10.32 PM.

Regarding the behavior of *scrutinize(s)*, the results show that this verb, among all genres, has the least number of total frequencies. The verb has a quite different behavior since it scores the highest frequency in magazines followed by the academic genres. Moreover, the verb has very little

appearance in areas like news, fiction, websites, and blogs. However, it is less frequently found in TV/media and spoken genres scoring about 0.28 and 0.98 PM, respectively.

With regard to the British dialect in which the BNC is divided into spoken, fiction, magazine, newspaper, non-academic, academic and miscellaneous, **Table 2** shows that *investigate(s)* tends to appear more frequently in non-academic genres registering about 8.78 PM followed by the academic texts with a frequency of 6.02 PM. However, the two forms appear less frequently in newspapers, fiction, magazines and spoken genres scoring frequencies of 2.62, 1.75, 1.41, 0.69 PM, respectively.

The verb *explore(s)* scores its highest frequency in different miscellaneous fields such as school and university essays, advertisements, emails, and commerce, just to mention a few. However, the behavior of *explore(s)* is a bit similar to *investigate(s)* in terms of its high frequencies in the academic genres and the non-academic ones. In addition, it is also similar in the low frequency of the appearances of the verb in magazines, newspapers, fiction and spoken genres.

Regarding the behavior of the verb *examine(s)*, **Table 2** illustrates its distribution among different genres in BNC which is still similar to *investigate(s)* and *explore(s)* in terms of their highest frequencies in the academic, non-academic and miscellaneous genres. Moreover, the distribution of the verb in fictional areas, newspapers, magazines and spoken genres records the least frequencies.

The behavior of the verb *scrutinize(s)* is thoroughly illustrated in **Table 2** showing very low frequencies in all genres. Again, there are some similarities yet with some differences between *scrutinize(s)* and the three previous ones. The distribution of the verb in the academic and non-academic genres records the highest frequencies of 0.17 and 0.16 PM. However, the verb tends to appear in fictional genres more often than the previous verbs. Further, it is worth mentioning that the verb is completely absent in newspapers and has very low frequencies in magazines and spoken genres scoring 0.01 PM.

The findings of this question have presented how the four synonymous verbs under investigation are differently distributed among several genres in COCA and BNC. Although some of these results have some similarities, they still differ. The COCA results have revealed that all the verbs tend

**Table 2.** Frequencies of the Four Verbs in Different Genres in COCA and BNC.

Genre	Verb	Blog	Web	TV/M	Spoken		Fiction		Magazine		News		Academic		Non-Academic	Miscellaneous
		COCA	COCA	COCA	COCA	BNC	COCA	BNC	COCA	BNC	COCA	BNC	COCA	BNC	BNC	BNC
<i>Investigate(s)</i>		20.00	30.04	16.21	34.74	0.69	10.64	1.75	24.11	1.41	28.55	2.62	56.35	6.02	8.78	4.43
<i>Explore</i>		41.6	53.2	12.43	17.3	0.89	13.37	1.60	58.82	2.55	34.05	1.22	106.85	5.44	6.81	6.96
<i>Examine(s)</i>		25.07	42.41	10.32	18.09	0.79	23.06	2.73	30.2	1.70	21.59	2.51	158.42	13.05	11.43	10.85
<i>Scrutinize(s)</i>		1.3	1.6	0.28	0.98	0.01	1.53	0.11	2.99	0.01	2.45	0.00	2.87	0.17	0.16	0.09

to be mostly used in academic genres except for *scrutinize*, which appears mostly in magazines. It is worth mentioning that these two genres are written rather than spoken. This shows that some verbs are more frequent than other verbs in written language. This result is compatible with those of Alanazi<sup>[44]</sup> (2023), who stated that the verb *affect* appears with more collocates in the written genres. It also duplicates the results of those of Sittironnarit et al.<sup>[43]</sup>, who proved that both “obtain” and “acquire” tend to occur in written genres and thus they have a high degree of formality. This finding is also in agreement with those of Li<sup>[38]</sup>, who also found out that the verbs *preserve* and *conserve* are used more often in written genres than in spoken ones. Moreover, this result is in parallel with those of GU<sup>[37]</sup>, who found out that *obtain* is used more frequently in pure and practical scientific genres in addition to its high frequencies in law and business genres.

The high occurrences of these three verbs in academic texts might be due to the fact that academic texts usually aim at presenting research objectives in different sections of research papers and texts, thus registering higher frequencies. Such academic texts also aim at analyzing information as well as developing knowledge. Therefore, such verbs carry the meaning of systematic structured inquiry. As for the high frequency of *scrutinize* in magazines, this can be attributed to the fact that this verb is formal and magazines usually present topics that are formal such as reviews, criticism and articles by professionals. Therefore, the verb *scrutinize* has its place in this formal context. Since these verbs tend to appear in formal contexts, they are natural to appear with low frequencies in fiction. Another point is that academic and scholarly texts are primarily meant to inform readers, not to amuse them. Therefore, such verbs do not have a presence in fiction. Furthermore, these academic papers are typically impersonal rather than subjective. This indicates that the information is typically the authors’ primary concern. Furthermore, an accurate description of facts and numbers without the addition of personal commentary is typically required while writing research papers.

The findings in BNC vary. For example, the verbs

*investigate(s)* and *explore(s)* tend to appear more in non-academic contexts unlike *examine(s)* and *scrutinize(s)* which appear mostly in academic contexts. This means that the British might use these verbs in everyday language for certain contexts related to informal inquiries that involve a type of mystery. This justifies the influence of language users on changing the use of words from informal to formal and vice versa.

### 4.3. Results and Discussion Related to Question Number Three

To assist in answering this query, the researchers resorted to the two corpora. The researchers visited <https://corpus.byu.edu> and relied on the KWIC Command to look up the verbs under investigation in their actual context after choosing the required corpus. The researchers typed the verb in the required tab and then chose the number of words to the right /left of the node word, which was two. Additionally, the researchers relied on 1000 concordance lines for accurate findings noting that this interface offers 100, 200, 500, or 1000 concordance lines. In order to determine the patterns of the verb, the researchers in this research selected two words that are located to the right of the node word. As a consequence, the outcomes were presented according to the first two words on the right and vice versa. Then the results were presented in two separate tables focusing on left and right nouns/adverbs that collocate with the four verbs.

#### 4.3.1. Findings Related to the Colligation of the Four Verbs in COCA

In this section, the researcher highlighted the grammatical patterns of each verb in COCA. Furthermore, the researchers relied on two symbols to ease the process of presenting the findings. First, (+) if the pattern referred to exists for the verb. Second, (-) to reflect the absence of the pattern. **Table 3** presents the results of the colligational behavior of the four verbs in American dialect. It shows the syntactic categories of the words that follow/precede the node words i.e., *investigate(s)*, *examine(s)*, *explore(s)* and *scrutinize(s)*.

**Table 3.** The Colligational Behavior of the Four Verbs in COCA.

No	Verb Patterns	<i>Investigate(s)</i>	<i>Explore(s)</i>	<i>Scrutinize(s)</i>	<i>Examine(s)</i>
1	*Verb + NP/N	+	+	+	+
2	*Verb + conj. + verb	+	+	-	+
3	*Verb + prep.	+	+	-	+
4	*Verb + adv.	+	+	+	+
5	Verb + and + * verb	+	+	+	+
6	NP + * verb	+	+	+	+
7	Verb (modal) + * verb	+	+	+	+
8	Prep. (to) + * verb	+	+	+	+
9	That + * verb	+	+	+	+
10	Conj. (or) + * verb	+	+	+	+
11	Conj. (but) + *verb	+	+	-	+
12	Adv.+ *verb	+	+	+	+

(\*) the use of the asterisk refers to any of the verbs under investigation.  
 Adv.: adverb; Prep.: Preposition; Conj.: Conjunction.

The results revealed that the overall patterns of these verbs are divided into twelve main patterns, each of which has its own sub-divisions.

**Table 3** gives a close picture of the patterns of the four verbs in COCA. As the Table indicates, the four verbs under investigation syntactically show twelve different patterns, namely “ \*verb + a noun phrase or a noun ”, “ \*verb + conjunction + verb ”, “ \*verb + preposition ” and “ \*verb + adverb ”, “ verb + and + \* verb ”, “ a noun phrase + \* verb ”, “ verb (modal) + \* verb ”, “ conjunction (or) + \* verb ”, and “ preposition (to) + \* verb ”, “ that + \* verb ”, “ conjunction (but)/(or) + \*verb ” and “ Adverb+ \*verb ”. The corpus-based data show that all of the four verbs share these patterns but with some differences in the number of occurrences. However, the verb *scrutinize(s)* seems to have different colligational behavior. The following paragraphs present a detailed description of these grammatical categories (See **Appendix A** for examples from the corpora).

**Pattern (1): \* Verb + NP/N**

**Table 3** shows that all verbs under investigation tend to be followed by noun phrases/nouns as they are all transitive verbs, which require an object. It is worth mentioning that a noun phrase might be an article like ‘a/an/the’ followed by a noun or any of the determiners such as ‘this, that, those, these’ followed by a noun. Additionally, adjectives plus nouns form a noun phrase as well. With regard to nouns, object pronouns can replace any noun and therefore belong to this category.

As the analyzed data indicates, the four synonymous verbs *investigate(s)*, *explore(s)*, *scrutinize(s)*, and *examine(s)*

appear with nouns or noun phrases. As for the nouns, different types of singular and plural nouns appear adjacently with the verbs under investigation such as *differences* and *allegations*. Different noun phrases appear with these verbs such as *the effect*, *the relationship*, *the lifestyle*, *a complaint* and *a new scientific frontier*. Another pattern that falls under the same umbrella of NPs is the use of an “article+adjective+noun” as seen in *a personal case* and *a new life*. The use of “article+adjective+noun” has a higher presence among other patterns. Finally, possessive pronouns have their role in identifying the nouns they appear with. Thus, the pattern of a possessive pronoun plus a noun has appeared with the verbs under investigation as exemplified in *my face*, *my claims* and *my work*.

**Pattern (2): \*Verb + conjunction + verb**

The corpus data showed that *investigate(s)*, *explore(s)* and *examine(s)* appear in combination with a conjunction like “and” followed by another transitive verb i.e., *analyze*, *determine*, *resolves*, *evaluates*, *rejects*, *describe*, *see*, etc. Apparently, what is common among these verbs that appear after the conjunction is the fact that they all seek to gather more information that leads to judgment based on the information gathered. Unlike other verbs, *scrutinize(s)* has no presence in such a pattern. To clarify, *scrutinize(s)* has registered a zero occurrence in both forms.

**Pattern (3): \*Verb + preposition**

The concordance data indicate that *investigate(s)*, *explore(s)*, and *examine(s)* can be followed by prepositions except for the verb *scrutinize(s)*. The findings revealed that the three verbs co-occur with prepositions but with very few

occurrences in the corpus. These verbs appear with a single-word preposition such as *in*, *on*, *for*, *through* and *from*. As for the preposition “*on*”, only one verb appears with this preposition which is part of an idiomatic expression “on her own”. This shows that even the colligational behavior of these verbs with prepositions is restricted to a number of prepositions.

**Pattern (4): \*Verb + adverb**

A typical behavior for any action verb is to be followed by an adverb if it needs further information. The analyzed data shows how the four verbs are followed by different adverbs such as *how*, *carefully*, *further*, *more* and *most*. They all give extra information by either asking about the manner in which the investigation, examination or exploration should be done. As for *carefully* and *further*, they both explain the intensity of the verb in which such actions related to these verbs should be done with keen care and attention.

**Pattern (5): Verb + and + \* verb**

This pattern combines two verbs using the conjunction “*and*”. The verbs, in this pattern, tend to hold the meaning of “investigating about a certain matter” or “asking for further detailed explanation” along with the four verbs under investigation.

**Pattern (6): NP + \* verb**

Table 3 below presents another pattern that is found in COCA for nouns or noun phrases (NP) that do precede the four node verbs. It is worth mentioning that NPs consist of various kinds such as a *subject pronoun* as “we” and “he”, an *adjective that is followed by a noun* as “documentary account”, an *article followed by a noun* as “the book”, a *determiner followed by a noun* as “this article”, etc. As referred to previously, such contexts and the existence of such nouns or NPs are to seek further investigation regarding a specific topic. Furthermore, looking closely at these nouns and NPs, one can detect that such nouns/NPs scored the highest frequencies of the words that tend to co-occur with any of these node words as referred to in the previous question. The corpus data show that these nouns or NPs refer to human or non-human subjects, which exemplifies the metaphorical usage of these verbs in some contexts.

**Pattern (7): Verb (modal) + \* verb**

The usage of any modal verb plus the verbs under in-

vestigation is another different pattern that appears in the American dialect. The overall results show that the different types of modal verbs such as *can*, *could*, *must*, *shall*, and *should* tend to precede the verbs to show obligation, possibility, ability, and prohibition. However, it is worth referring to the grammatical rule of English that suggests the absence of present simple verbs with the -s due to the fact that modals follow the base form of the verb. Hence, such patterns lack *investigate(s)*, *explore(s)*, *scrutinize(s)* and *examine(s)*.

**Pattern (8): Preposition (to) + \* verb**

This pattern refers to the appearance of the preposition (to) as part of the infinitive structure before the verbs under investigation. Again, the abovementioned grammatical rule regarding the infinitive form of the verb applies here as well. Therefore, the corpus data do not display any verb with the third person singular -s form.

**Pattern (9): That + \* verb**

The occurrence of the relative pronoun (that) has also its presence in the American dialect. The overall results show that the relative pronoun *that* is mostly preceded by a noun and is followed by any of the verbs under investigation. This pattern functions as an adjective clause modifying the nouns that appear before that. It is worth mentioning that this pattern modifies non-human nouns i.e., works, research, studies, agencies, program, etc.

**Pattern (10): Conjunction (or) + \* verb**

Conjunctions such as *or* can appear with verbs under investigation. The conjunction *or* is used to connect two verbs: *interview or investigate*, *discover or explore*.

**Pattern (11): Conjunction (but) + \* verb**

This pattern is peculiar to the conjunction *but* in combination with verbs. This pattern is only applicable to three verbs i.e., *investigate(s)*, *explores* and *examine(s)*. On the contrary, the verb *scrutinize(s)* does not follow this pattern. Looking closely at the concordance lines, it is clear that before the conjunction *but*, we can have various parts of speech such as an adjective as in *individual*, or a noun as in *broadcasts*, or a phrasal verb as in *looks up*. Thus, the conjunction *but* combines words with different types of speech with verbs.

**Pattern (12): Adverb+ \*verb**

The four verbs appear to be preceded or pre-modified by different types of adverbs. Some of these are adverbs of manner that describe the way that action should be performed such as “actively”, “closely”, “adequately” and “carefully”, etc. Other adverbs are used to refer to time such as *then* and *now*.

**4.3.2. Findings Related to the Colligation of the Four Verbs in BNC**

**Table 4** shows the results of the colligational behavior of the four verbs in the British dialect. It again presents the syntactic categories of the words that follow/precede the node words i.e., *investigate(s)*, *examine(s)*, *explore(s)* and *scrutinize(s)*. The overall findings stated that the patterns of these four synonymous verbs are divided into eleven groups with different sub-divisions.

**Table 4** presents the patterns of the four verbs in BNC. The corpus-based data highlights the similarities and differences between the four synonymous verbs. As shown in the table above, the four synonymous verbs share almost all the grammatical patterns. The following paragraphs deliver clear detailed descriptions of the colligational behavior of the four verbs (See **Appendix B** for examples from the corpora.).

**Pattern (1): \*Verb + NP/N**

**Table 4** demonstrates that because all of the verbs under examination are transitive, they need an object. Therefore, they are typically followed by noun phrases or nouns. As mentioned above, it is important to note that a noun phrase can consist of an article like “a/an/the”, or any of the determiners “this, that, those, these,” followed by a noun. Adjectives and nouns together also form a noun phrase. Object pronouns fall into this group because they can take replace of any noun.

Regarding the nouns, several kinds of both singular and plural nouns coexist with the verbs that are being studied such as *language* and *aspects*. Different noun phrases appear with these verbs such as *the causes*, *the mystery*, and *a crime*. Another pattern that falls under the same umbrella of NPs is the use of an “*article+adjective+noun*” as seen in *a rich world* and *a small number*. Again, the use of “*article+adjective+noun*” has a greater frequency in comparison to other patterns. Finally, the use of the possessive pronouns attached to nouns is another pattern for these verbs as exemplified in

*my understanding*.

**Pattern (2): \*Verb + conjunction + verb**

The concordance lines analyzed data illustrate the grammatical behavior of the verbs under investigation in the British dialect. The corpus data demonstrated that *investigate(s)*, *explore(s)*, *scrutinize(s)* and *examine(s)* occur in connection with another transitive verb, such as *develop*, *discover*, *resolve*, *redesign*, *analyze*, *prepare*, *explain*, *responds*, etc., after a conjunction such as “and.” It seems that all of these verbs that come after the conjunction have the intention of acquiring further knowledge in order to make a decision based on that information.

**Pattern (3): \*Verb + preposition**

The four verbs *investigate(s)*, *explore(s)*, *examine(s)* and *scrutinize(s)* tend to appear with prepositional words rather than phrases as in COCA such as: *in*, *into*, *by*, and *at*. Again, as found in COCA, the preposition ‘on’ fulfills a part of idiomatic expressions as “on your own”. Therefore, this pattern is not really used.

**Pattern (4): \*Verb + adverb**

This pattern is very important as all verbs can be followed by adverbs to be further described. However, there are different types of adverbs that action verbs typically follow. Such adverbs are: *how*, *carefully*, *further*, *critically* and *initially*. However, all of these adverbs function differently in various contexts. Some adverbs seek to ask for further explanation as for the adverb *further* while others explain the manner in which things are done as for the adverb *carefully*, *critically* and *initially*. Moreover, it is worth mentioning that these adverbs have few occurrences in the British corpus, i.e., BNC.

**Pattern (5): Verb + and + \* verb**

**Table 4** shows that the four verbs happen to co-occur with the conjunction “and” to join two verbs that are related in meaning. The verbs, in this pattern, hold the meaning of “asking for further information”. It is worth mentioning that all these verbs under investigation have a great number of frequencies with the conjunction “and”.

**Pattern (6): NP + \* verb**

Another pattern that shows nouns or noun phrases (NP)

**Table 4.** The Colligational Behavior of the Four Verbs in BNC.

No.	Verb Patterns	<i>Investigate(s)</i>	<i>Explore(s)</i>	<i>Scrutinize(s)</i>	<i>Examine(s)</i>
1	*Verb + NP/N	+	+	+	+
2	*Verb + conj. + verb	+	+	+	+
3	*Verb + prep.	+	+	+	+
4	*Verb + adv.	+	+	+	+
5	Verb + and + * verb	+	+	+	+
6	NP + * verb	+	+	+	+
7	Verb (modal) + * verb	+	+	+	+
8	Prep. (to) + * verb	+	+	+	+
9	Conj. (or) + * verb	+	+	-	+
10	Conj. (but) + *verb	+	+	+	+
11	Adv.+ *verb	+	+	+	+

(\*) the use of the asterisk refers to any of the verbs under investigation.  
 Adv.: adverb; Prep.: Preposition; Conj.: Conjunction.

along with the verbs under study. It is important to note that NPs come in a variety of forms, including subject pronouns like “we”, “they” and “he” or nouns as in “*authorities*”, “*experiment*”, “*project*”, “*authors*” and “*analysis*”. Again, what is noticeable among these nouns is that fact that these nouns are related to knowledge acquisition. To clarify, the first noun i.e., “*authorities*” refers to the reliable source of information. As for the word *experiment*, it refers to the scientific way of testing information and gaining it. With regard to “*project*” as another noun preceding these verbs, this word involves generating and creating new knowledge in a planned way. As for *authors*, this word has to do with a person who writes something such as books, articles, poems, etc., which can be considered as a source of knowledge. Lastly, in order to gain a better understanding, people usually resort to analysis which is deemed as a way not only to examine knowledge but to understand it better.

**Pattern (7): Verb (modal) + \*verb**

This pattern tends to appear with all verbs under investigation to talk about what is permitted, necessary and obligatory. In other words, the four verbs appear with deontic modalities. It is important to mention that in this pattern only the root verbs are considered while verbs with the singular -s do not occur in this pattern.

**Pattern (8): Preposition (to) + \* verb**

The preposition ‘to’ precedes the node verbs with the infinitive form of the verbs. Therefore, verbs with the singular -s do not exist i.e., *investigates*, *explores*, *scrutinizes*, and *examines* as shown in **Table 4**.

**Pattern (9): Conjunction (or) + \* verb**

In this pattern, the conjunction ‘or’ tends to co-occur with only three verbs under question which are: *investigate*, *explore*, and *examine(s)*, whilst the verb *scrutinize(s)* does not appear in this pattern in BNC. The function of the conjunction ‘or’ happens to combine two possibilities or alternatives. In other words, examining the concordance lines below, one can spot the verb or verb phrase that precedes the conjunction which combines it with our verbs under investigation.

**Pattern (10): Conjunction (but) + \* verb**

The conjunction ‘but’, which presents contrasting ideas, happens to co-occur with only three node verbs with low occurrences in the BNC. Additionally, *investigate*, *explore*, *scrutinizes* and *examines* are the only forms found in the concordance lines.

**Pattern (11): Adverb + \*verb**

The corpus data show that the four verbs in the two dialects appear with various adverbs such as “*also*” and “*further*” that require more information and additions as well as describing the manner in which the action should be done as in “*carefully*”. It is noteworthy that these adverbs pre-modifying carry positive connotations as seen below.

In a nutshell, the four verbs follow the usual patterns of any transitive verb i.e., to be preceded by a noun as (subject), an adverb or to be followed by an object noun, preposition or an adverb as shown in chapter four. Results of the colligational behavior of the verbs under investigation in COCA show that the four verbs share the twelve patterns except for *scrutinize* in which three patterns were absent viz., “\*V+conjunction+V”, “\*V+preposition” as well as “conjunction (but)

+ \*V”. This result could be due to the fact that this verb has the lowest frequency among other verbs. Thus, the patterns of *scrutinize* are not as numerous as the other three verbs in addition to its limited collocational behavior and the very restricted contexts this verb has.

Another reason is the peculiar meaning of the verb *scrutinize* which is much more detailed and accurate than the other synonyms. That is to say, this verb enjoys unique features, a stronger and peculiar meaning than the three other verbs in the current study. Moreover, the strong connotation and semantic meaning of this verb are deemed another reason for the absence of such a verb in the above-mentioned patterns. In other words, the verb does not need more modifying words such as adverbs to describe its manner or intensity. Again, the implicit meaning of the verb is to do close and deeper examination. Therefore, the verb *scrutinize(s)* is not as flexible as the other verbs due to its semantic meaning and its degree of formality in certain contexts.

On the contrary, the three other verbs behave similarly in terms of their colligational behavior and thus are more flexible than the verb *scrutinize(s)*. This might be due to the literal and figurative usage of those words. This result is highly compatible with the findings of Li<sup>[38]</sup>, who stated that *preserve* has richer and more flexible colligation patterns than *conserve* and this applies to the three verbs in comparison with *scrutinize*. *Explore* has unique features since it has many patterns that can precede the verb as a way to deliver rich and fruitful messages and clarifications. For instance, the patterns of: “NP + \*verb”, “verb (modal) + \*verb”, along with “preposition (to) + \*verb” precede the verb to add more value to the context by passing a full image of the thing being explored. For the same reason, *examine* and *scrutinize* happen to be followed by the preposition (to) since it is part of the infinitive form of the verbs and it aims at showing the purpose and intention.

As for the results of the colligational behavior in BNC, the findings revealed that there are eleven patterns. Findings of BNC have also highlighted the fact that there are ten patterns in common. However, there is only one pattern that differs from other patterns which is: “conjunction (or) + \*verb” as the verb *scrutinize(s)* does not appear here. Other particularities that are also highlighted are in terms of their occurrences. First, the pattern of: “\*verb + preposition” tends to have very low frequencies with all verbs especially

with the verb *scrutinize(s)*. Again, this could be explained due to the strong meaning the verb “scrutinize(s)” has, as it can stand alone and give powerful and full meaning.

Also, the verbs *examine(s)* and *scrutinize(s)* have a very low presence in “NP + \*verb”. This might be due to the fact that those two verbs appear mostly in passive voice rather than active voice. For example, in the academic field one can say “the results were examined/scrutinized instead of saying the researcher/research examined/scrutinized the results”.

Another worth mentioning argument is that there are some patterns that limit the appearances of some verbs such as: “verb (modal) + \*verb” as well as “preposition (to) + \*verb” as they follow strict grammatical rules that consist of rejecting the singular -s with the verbs. Therefore, the verbs *investigates*, *examines*, *scrutinizes* and *explores* are absent.

Another justification for the low frequencies of modal verbs or even sometimes the absence of such a pattern is due to the nature and meaning of these verbs that tend to hold the meaning of deeper analysis and exploration and they also express a level of certainty. Thus, using them with modal verbs might make a sentence/text redundant. Therefore, they have registered very low frequencies.

## 5. Conclusion

The overall analysis of the results has uncovered that although the investigated verbs in the present study seem to be similar in isolation, there are some cases where they cannot be interchangeably used. Moreover, the verbs *investigate*, *examine* and *explore* are more synonymous than *scrutinize*. Furthermore, based on the overall results, this research came up with some pedagogical implications for EFL teachers, curricula planners, lexicographers and even semantists in which they are all advised to resort and activate corpora in their fields. The overall findings can be summarized as follows:

1. The results have shown that the most frequent verb is *explore(s)* in COCA and *examine(s)* in BNC. The two verbs occupied the first two ranks in the two dialects. Interestingly, *investigate(s)* has scored the third rank with some variations in their frequencies. The results of both corpora have also revealed that *scrutinize(s)* has scored the lowest frequencies in the two dialects.
2. Regarding the distribution of these verbs among different genres, the four verbs appear mostly in academic texts

in American English. However, they have the lowest frequencies in T.V. except for *investigate(s)* which has very low frequency in fiction. As for their appearance in British English, both *investigate(s)* and *explore(s)* appear with high frequencies in non-academic texts, unlike *examine(s)* and *scrutinize(s)* which appear mostly in academic texts. Moreover, the corpus data show that the four verbs have registered the lowest frequencies in the spoken genre.

- The overall findings of COCA have demonstrated that all verbs under investigation have many patterns in common. For example, they all share the patterns of “\*verb + NP/N”, “verb + and + \*verb”, “NP + \*verb”, “verb (modal) + \*verb”, “preposition (to) + \*verb”, “that + \*verb” and “conjunction (or) + \*verb”. On the contrary, there are many patterns that do not occur with the verb *scrutinize(s)*. For instance, the patterns of “\*verb + conjunction + verb”, “\*verb + preposition”, as well as “conjunction (but) + \*verb” are found with the verbs *investigate(s)*, *explore(s)* and *examine(s)*.
- Findings of BNC have also highlighted that there are some patterns in common such as “\*verb + NP/N”, “\*verb + conjunction + verb” and “\*verb + adverb”. However, all the other patterns have some peculiarities. Moreover, “that + \*verb” pattern is completely absent in the British dialect while it is highly present in the American dialect with all verbs.

## Author Contributions

Conceptualization, S.S. and Y.J.; methodology, S.S., L.K., and B.R.; software, S.S. and Y.J.; validation, S.S., L.K. and B.R.; formal analysis, S.S.; investigation, B.R.; resources, S.S. and L.K.; data curation, B.R.; writing—original draft preparation, Y.J., S.S.; writing—review and editing, L.K.; visualization, B.R. All authors have read and agreed to the published version of the manuscript.

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Data are available upon request.

## Conflicts of Interest

The authors declare no conflict of interest.

## Appendix A. Concordance Lines from COCA

hammers .not to mention toasters and toilet plungers ; To	investigate	differences in social learning in humans and chimpanzees . my
branch lengths between the input and output trees ; To	investigate	differences in branch length . we calculated the cophenetic
who were dispatched to the resort city in October 1990 to	investigate	allegations about Robb 's social life there . # The memos .
;#- The NFL has hired an independent counsel to	investigate	allegations of sexual harassment by five players of Boston
.smaller flexural reinforcing bar ratios were used to	investigate	the effect of Grade 550 MPa (80 ksi ) shear reinforcing
nmeshment . The purpose of the current pilot study was to	investigate	the effect of race/ ethnicity . gender .year in college .
family preservation and family reunification . and ( b ) to	investigate	the relationship between educational status and selected
.colocalizes with abnormal paramyosin accumulations # To	investigate	the relationship between the E424K protein and the formation of
up as a sort of Royal Family ; # When one	scrutinizes	the lifestyle of the group 's leaders . the type of properties
s placed on paid administrative leave Thursday while ECISD	investigates	a complaint made against Badon by a co-worker . Badon was not
for something else greater than that . a film that really	scrutinizes	a father-son relationship and the father as the failed athlete .
Riddel . William Spanos . and J Hillis Miller ; Krieger	scrutinizes	a poem as a determinate . knowable .special constructed object .
know the two of you separate better given some time to	explore	a new situation ; then explain that it 's best for you
.or revived sex .or enjoying the opportunity to	explore	a new life on my own . That said .the process
the .as 17 working groups were authorized to	explore	a variety of topics ranging from climate debt to food
( 1 ) satisfy changing information needs ; ( 2 )	explore	a Web site ; ( 3 ) visit a recommended Web page
younger sister has had a baby before i did ... Rose	scrutinizes	my face for another hair . " It can happen . Your
of either shaming me or bullying me into resigning ; He	scrutinizes	my work ; talks down to me . and peppers me with
robbing and killing a woman who police say trusted him to	investigate	a personal case involving stolen money . # Officer Chapel . an

Screenshot 1: Concordance Lines for Pattern (1): Verb + NP/N in COCA.



encourage students not simply to <b>recycle</b> information but to <b>investigate</b> <b>and</b> <b>analyze</b> its sources . This includes : # Building support	nd Speaker <b>Shap</b> Smith requested the <b>Attorney General</b> to <b>investigate</b> <b>and</b> <b>determine</b> whether <b>in</b> providing this incorrect information
<b>and</b> (4) improvements to the way the <b>FDNY</b> <b>investigates</b> <b>and</b> <b>resolves</b> complaints of racial discrimination in the	of the Georgia Division of Public <b>Health</b> , which <b>monitors</b> , <b>investigates</b> <b>and</b> <b>responds</b> to <b>subtle</b> health crises , will receive less state
column by Sun- <b>Times</b> <b>technology</b> writer Howard Wolinsky <b>examines</b> <b>and</b> <b>evaluates</b> <b>real estate</b> and # homeownership-related sites on	. Broomfield 's new <b>movie</b> , Kurt and Courtney , which <b>examines</b> <b>and</b> <b>rejects</b> allegations that Love was complicit in her husband
<b>geologists</b> with a formidable , multi-faceted task : first , to <b>explore</b> <b>and</b> <b>identify</b> these <b>botanical</b> solutions ; second , to articulate	control of their <b>work</b> . # <b>Kobayashi</b> <b>releases</b> students to <b>explore</b> <b>and</b> <b>invent</b> <b>in much</b> the same way that art instructors teaching
that was most impressive about the <b>book</b> was how Conrad <b>explores</b> <b>and</b> <b>describes</b> situations and experiences in the Heart of	3203266 # <b>This</b> <b>blog</b> <b>explores</b> <b>and</b> <b>examines</b> the intersections of rhetoric , race , and religion
orts by the Federal <b>Government</b> and state governments to <b>examine</b> <b>and</b> <b>resolve</b> issues related to race , ethnicity , religion and ,	whom these things belong , And she said , " Please <b>examine</b> <b>and</b> <b>see</b> , whose signet ring and cords and staff are these

Screenshot 2: Concordance Lines for Pattern (2): \*Verb + conjunction + verb in COCA.

into <b>Stepford</b> doctors . # Of course she <b>foolishly</b> but <b>boldly</b> <b>investigates</b> <b>on</b> her own , meets the villain and runs for her life	activities and he orders her to ignore the <b>behavior</b> , Alexis <b>investigates</b> <b>on</b> her own . Suddenly , she is not only a witness
My Notorious Life (Scribner ) . by <b>Kate</b> Manning , <b>investigates</b> <b>in</b> a <b>Dickensian</b> way , the life and times of one of	manifestations have a double relation to <b>reality</b> ; Mukarovsky <b>investigates</b> <b>in</b> detail <b>Roman</b> Ingarden 's thoughts about how we understand
, worldwide , that you have to <b>have</b> a <b>capacity</b> to <b>investigate</b> <b>for</b> allegations that occur outside the drug testing program .	and Africa . This was the feature that <b>led</b> Wegener to <b>investigate</b> <b>for</b> other evidences . His investigations revealed that
n't exped the courts or the cities <b>for</b> that matter to <b>investigate</b> <b>in</b> every case what the degree of the Government 's involvement	provide any further information on their status . You want to <b>investigate</b> <b>in</b> person ? I 'll take a shuttle . Discovery stays here .
. Eric Rommal , says the museum <b>asked</b> the <b>FBI</b> to <b>investigate</b> <b>in</b> the fall , and the bureau and Louisiana State Police found	can you tell me ? " Your <b>grandfather</b> went to <b>explore</b> <b>for</b> minerals . " my mother said . " Oma found the
Solar array on the internet under Images . To see and <b>explore</b> <b>for</b> your self then you be the JURY . # More than	challenging its dismissal as a ' dead place ' . He <b>explores</b> <b>in</b> detail the richness of language associated with this
spatial unit such as a neighborhood or a <b>city block</b> and <b>explores</b> <b>in</b> detail the manner of life identified with this place . "	book , Tambora : The Eruption that <b>Changed</b> the World , <b>explores</b> <b>in</b> greater detail some of the areas hardest hit by the event .
. It 's short for Talent Chat . So when Meghan <b>explores</b> <b>in</b> her post below the power of community and engaging the peo	by reading American poetry -- a <b>dynamic</b> Grotz said she <b>explores</b> <b>in</b> her course on Polish poetry . # Grotz is no stranger
to " thinking critically and living faithfully . " the <b>magazine</b> <b>explores</b> <b>through</b> argument and reflection what it means to believe and	When she reaches a puzzle she ca n't solve , she <b>explores</b> <b>through</b> possible futures until she figures out how to lead
games , and a great many other <b>herd</b> things that he <b>explores</b> <b>through</b> writing and games . D. Hunter regularly writes board	he developed them during his Chinese stay , in order to <b>examine</b> <b>from</b> a different perspective , and to broaden , themes and goals
This special supplement thus presented a <b>unique</b> opportunity to <b>examine</b> <b>in</b> detail the disparities between racial/ethnic groups in	

Screenshot 3: Concordance Lines for Pattern (3): \*Verb + preposition in COCA.

spend in offering PL activities , it is <b>important</b> to <b>examine</b> <b>carefully</b> the changes in practices that occur . Because desired	of the final days , and by <b>studying</b> these we can <b>examine</b> <b>further</b> any indications that would point to the European Union
to scrap the current system and focus <b>on</b> creating one that <b>examines</b> <b>carefully</b> the connections of prospective U.S. citizens ,	Advancement of Education sponsored Abraham Flexner to <b>investigate</b> <b>further</b> the curriculum at medical schools . His 1910 report
third stage , we used multidimensional scaling ( <b>MDS</b> ) to <b>investigate</b> <b>further</b> the value structure of the work groups . # Factor	you have a list of journal titles you will need to <b>investigate</b> <b>further</b> to determine how suitable these journals really are for
' law license as a result of his conviction while it <b>investigates</b> <b>further</b> Gaul said Thursday that he will have to sign off	. # <b>Gaines</b> (1987 ) points out the need to <b>scrutinize</b> <b>carefully</b> any evaluation tools and instruments because an
committee opposing Proposition V , I <b>urge</b> your readers to <b>scrutinize</b> <b>carefully</b> the false claims made in the October 14 letter to the	affair . # <b>Courser</b> and <b>Gamrat</b> 's attorneys are expected to <b>scrutinize</b> <b>how</b> the state police investigation was conducted as well as the
watching instructional videos on the <b>Internet</b> , they closely <b>scrutinize</b> <b>how</b> these musicians master their instruments and try to copy	to see if you won or lost but will try to <b>scrutinize</b> <b>how</b> you won , " he said . " " Did you
<b>Sternberg</b> , 1986 ) rather than innate have caused us to <b>scrutinize</b> <b>more</b> carefully our assumptions about biologically-based	get at a new restaurant , it 's the one you <b>scrutinize</b> <b>most</b> closely . It should excite , entice , and explain .
interaction to create new lives . 5 # <b>Scholars</b> have yet to <b>explore</b> <b>closely</b> this complexity in the case of Indian people who made up	one of the themes or improvisations with the group to <b>explore</b> <b>further</b> . It should be the one that interests the group the
# In 3 days of talks , <b>Bush</b> and <b>Putin</b> will <b>explore</b> <b>how</b> a new Russia could develop close economic , strategic and	in five countries and a broad <b>historiographical</b> base , <b>Block</b> <b>explores</b> <b>how</b> <b>colonial</b> subjects in the seventeenth-century Caribbean

Screenshot 4: Concordance Lines for Pattern (4): \*Verb + adverb in COCA.

substantive questions that require them to explore and investigate in depth too often , students are rushed through this early
the sides respond to this deadly attack : Shakhov assists and investigates while Borovskii and Szov try to subvert
Centers for Disease Control and Prevention , which monitors and investigates outbreaks of food-borne illnesses nationwide
my other tasks weekly regression analyze and investigate system etc ) has 5 times capacity
to for guidance . We had to let him discover and explore his heritage by himself . Let him find his own path .
I encouraged the students to investigate and explore ideas They engaged in reading and interpreting data
Roberts may be a author UN agency asked often investigates and explores themes with attention on responsive commonly asked queries
You have to remain perfectly still while examine and scrutinize you [Sniffing] Dripping . Huh ?Do you ever eat dripping
That is changing the way Washington works and scrutinizes our future government JUDY-WOODRUFF# Well , Lisa
means to bring or put together : hence to compare and examine as evidence and so to prove . Used in the
river . Grant slides off the boulder He kneels and examines the particles They shimmer in the moonbeams coming down

Screenshot 5: Concordance Lines for Pattern (5): Verb + and + \*verb in COCA.

you know . and we two team up So we investigate , find out the nutrition value , analyze what is inside and
was full of hate . Nasty , self-destructive Did you investigate these problems yourself ? I talked to Kira . I could see
GBI Director Vernon Keenan whose agency investigates the majority of such incidents in Georgia -- acknowledged the
as a priest in a small church , while privately he investigates cases he considers as those of possible demonic possession
It is important that researchers explore ways in which new knowledge and understanding can be
past the Big Bang . # How far back can scientists explore ? # ML : In some sense , you can think of
is the next step after miniaturization This book explores the cutting edge of a new technology that will find usage in
Democratic Party operatives whenever reporters scrutinize a lawmaker 's voting record is something to behold . These
but it 's core function differs fundamentally It scrutinizes the art object rather than the reality as interpreted by the
This documentary account examines the development of an action-research requirement within
reports and inquiry responses Data analysis examines the data stored within a system . Information analysis
Muslim town in Central Sudan , this article examines some of those demands and the nature of the zar 's
Memory , " published in 1996 The book examines how history has been trivialized by popular culture .
as the 10,000 hour rule , were valid If we examine top athletes , musicians , etc. , they have easily put that

Screenshot 6: Concordance Lines for Pattern (6): NP + \*verb in COCA.

It is the most important subject intelligent persons can investigate and reflect upon " The government should never go into debt
Throughout the game , students must investigate clues and talk to virtual characters . Another game . Expedition
stone in the bread of Kullervo . Dram a contract We shall explore some aspects of the theme (see above) . We shall
,the public can look at it , the press can scrutinize it , both political parties can go at it , and ultimately
shocks in peer-reviewed journals , where experts could scrutinize it To defend his methods , he points to a bibliography
to recognize as reasonable . " 78 Thus , courts must scrutinize any technology the government might seek to justify under the
Not Otherwise Specified (EDNOS) . 22 future studies may examine the combination of these characteristics , or other eating
a Goodness of Fit Index of .94 future research should examine officials from other sports to identify similarities and

Screenshot 7: Concordance Lines for Pattern (7): Verb (modal) + \*verb in COCA.

local officials as well as first responders have the ability to investigate the incident to the fullest and determine if there is a credible
a layout at the user 's request this ability to explore and learn a space virtually before actually going there , called
we are aware , this is also the first study to explore the relationship between prescribing errors and pharmacists '
lawyers expect the decision to spur civil-rights advocates to scrutinize state constitutions for provisions guaranteeing not only
With its huge lightgathering power , it will be able to scrutinize remote galaxies at the edge of the observable universe . " The
nor Monroe had any idea that he was being asked to examine extraterrestrial sites Neither of us knew what we were

Screenshot 8: Concordance Lines for Pattern (8): Preposition (to)+\*verb in COCA.

wit that wears its transcendent ambitions lightly . Works that investigate chance and indeterminacy through found objects , monochrome
The guiding force for such strategies should be research that investigates factors that place youth at risk for committing violent acts .
reviewed over 6,000 * play histories , case studies that explore the role of play in each person 's childhood and adulthood .
answer the biggest questions . We 're a research agency that explores . # We want to look at new questions of what we
of Agriculture -- one of at least three federal agencies that scrutinize the various aspects of production , along with the
administration added social media checks to a program that scrutinizes persons from majority-Muslim nations , newly obtained
Summaries and discussion of sixty-two research studies that examine the effects of arts learning on students ' social and academic
of * A Whole New Mind , a book that examines the importance of irreplaceable human-touch , hands-on skills
American Art Museum presents the only major exhibition that examines how America 's artists represented the impact of the Civil War

Screenshot 9: Concordance Lines for Pattern (9): That + \* verb in COCA.

employees did not visit the office , interview the doctor or investigate his credentials before placing the student .
the important questions , and wo n't bother to report or investigate or find out what happened so that we can make informed decisions
, 1970 ; Rao & , DeMaris , 1995 ) or investigates only a very small set of behaviors (Lames et al. ,
but he can not take depositions or examine witnesses in court .
monkeys that are less able to hold up their heads or scrutinize novel objects . At three years old , their hippocampus , a
The act of coding is generally to discover or explore data for further analysis , which means that coding is only a
near term , humans may colonize the Moon and Mars or explore other planets in the solar system . But what about the longer

Screenshot 10: Concordance Lines for Pattern (10): Conjunction (or) + \* verb in COCA.

Trinity Foundation , which not only helps the neediest but investigates televangelists. Also with us , J.C. Joyce , attorney whose
doesn't argue with the individual but explores the person 's ambivalence
news broadcasts but examine them carefully .
She never looks up but examines her hair in a hand mirror all the

Screenshot 11: Concordance Lines for Pattern (11): Conjunction (but) + \* verb in COCA.

of Americans say the federal government should actively investigate and infiltrate extremist groups , even if it may infringe on
to have proactive law enforcement to go out and actually investigate and find these victims , and so its a whole new ball
health is one of the few in the nation that actually investigates claims of sex transmissions , rather than merely taking the man
Institute for Diversity and Ethics in Sport , which annually examines the racial and gender composition of pro and college personnel
that they could investigate ? Did the Army itself adequately investigate all of the complaints that now seem to be coming forward about
that on a case-by-case basis , carefully reviews carefully scrutinizes , any transaction that could pose any risk to the security
In an era of fiscal restraint , we should absolutely scrutinize funding decisions . But , we must do so honestly and in
the counter . The man picked up the camera to closely examine its exterior , then opened the cover and extended the bellows
crankcase from the original 1903 Flyer . Visitors can also explore reconstructions of the Wrights ' living quarters and hangar ,
the human face in the Middle Ages ; we must also examine the problem of humankind as the image of God : we can
now on display at the museum . # The exhibit also scrutinizes ongoing speculation that the military was testing captured
has not previously been reported . This study also examines for the first time the relationship between fusion and flicker
of the research on the transition to middle school then examines more specifically research highlighting the critical
themselves in face-to-face interviews . The article also investigates the risk management techniques presented by the informants .
in spite of the near-absence of gay characters ; it further investigates the role of cartoonist 's gender , the age of the title
an important figure in the Vatican . Looks like we already explore him , not him ve found nothing . This job will not
associates have not yet received funding to further investigate his theories . Plummer is cautiously optimistic about the
strand " narrative stylistics , " ( n2 ) Simpson further explores the concept of textual medium by making a structural analysis of
can enter the United States . Embassy officials must now scrutinize a broader pool of visa applicants to determine if they pose

Screenshot 12: Concordance Lines for Pattern (12): Adverb + \* verb in COCA.

## Appendix B. Concordance Lines from BNC

without a search warrant early on Oct. 18-19 to	investigate	allegations	that the party had transferred DM107,000 ,
' Smith 's suggestion is that the GMC should	investigate	treatments	offered by doctors that may be risky and
# Subject Area : # UNKNOWN This project	investigates	aspects	of the post-war development of an ever-more
current policy concerns . On the first count it will	explore	aspects	of the socio-economic organisation of minority
and in the Treaty of Rome . The research will also	examine	areas	where there was a refusal to abandon sole national
speech which can only be appreciated when one	examines	language	production above the sentence level ; hence this
. O'Neill announced the Cameron Commission to	investigate	the causes	of the disturbances . Unionism was collapsing .
he now make her his partner so that they could	investigate	this mystery	together ? Yes ! he decided . Two brains were
Yeah , the uni-- er the uniform branch turn up to	investigate	a crime	and if they find fingerprints they will get what 's
Shakespeare is a fine follow-up ; Barton does	investigate	the actor 's work	in a more contemporary way and the
the post-structuralism of Foucault discerns and	investigates	a continual flux	and change in society and in structures
families to buy freehold plots . Elsewhere , he	investigates	a fertiliser factory	, the Bayeux tapestry , and the lunatic
in the next chapter , they are able to uncover and	explore	a rich world of	local politics . # Activity 4.2 # Local
with lying on a beach ? Quite the best way to	explore	an island in	the sun is to potter round it -- in
to be premiered on 27 March . The dialogue	explores	my understanding of certain	colourings -- Klee 's images
many of them had followed in the early 1970s to	scrutinize	rule books	and exploit every line and loophole in their
the Commons and the Lords has been set up to	scrutinize	statutory instruments	, and therefore to facilitate
. The selector takes each subject field separately ,	scrutinizes	the library 's existing	stock on the subject , and the pattern
look at " The retreat " by Henry Vaughan and to	examine	a small number of	its elements and terms in relation to the
argues that their typology is discriminatory . She	examines	the connection between	the curriculum and the deviance

Screenshot 13: Concordance Lines for Pattern (1): \*Verb + NP/N in BNC.

s Hill . It has also given a commitment to	investigate	and develop	appropriate child care options according to
, the teacher and the pupils have the opportunity to	investigate	and discover	together whether through discussion and
in April I said I was n't feeling comfortable . We	investigates	and discovered	that I was carrying more than half a litre
solving activities , and # the Problem Solver , who	investigates	and resolves	the problem . There are three PCF dialogues
to correct them . An outside facilitator could help them	examine	and redesign	their actions just as a tennis coach might
encouraging the students to use this awareness to	examine	and analyze	their other language (which was usually their
that of a doctor dealing with an individual : the doctor	examines	and prescribes	, the patient listens and obeys . ' Patient
would emulate the way in which the human mind	examines	and researches	information , not in a step-by-step , linear
and Opposition members will take particular care to	scrutinize	and attack	government action . The leading Opposition
conservative ideologues who were commissioned to	scrutinize	and prepare	detailed reports on the workings of agencies
efforts to provide the time and space for the students to	explore	and develop	their abilities and inclinations to learn and
Demo systems are generally developed by linguists to	explore	and explain	linguistic phenomena which can later be
led Proust , as it leads his fictional hero , to	explore	and examine	his past . In the novel , however , Marcel
Finally Zabriskie shows the work of Pascal Kern which	explores	and combines	the traditions of photography , sculpture
ageism wherever it is encountered . Mary Marshall	explores	and develops	this vital question in the next chapter .

Screenshot 14: Concordance Lines for Pattern (2): \*Verb + conjunction + verb in BNC.

are either interesting or important . In <b>later chapters</b> we shall	investigate	<b>in depth</b> some of those binary operations which have , by their
Major said , 'You mentioned to Harrison you had someone	investigate	<b>into</b> Kinsella 's past . Who ? ' ' Billy Durkin .
was . The private-eye is a person of action . He	investigates	<b>by going to places</b> , tackling people , often but not always
activity centre . Michael decides he needs <b>time , time</b> to	explore	<b>at his own pace</b> projects involving the art of photography , video
's review has to be judged . <b>Claman sets out</b> to	explore	<b>in depth fundamental questions</b> , but readers expecting such
a very large number of possible word <b>strings</b> . This <b>chapter</b>	explores	<b>in more detail</b> the effect of such equivalence classes on parsing
for the conservation of Rome 's antiquities , and this <b>book</b>	explores	<b>in satisfying depth</b> the activities , notably of the French , in
approximations to truth which their <b>colleagues test</b> and	scrutinize	<b>to professional standards</b> , people make home brews from their
not resisted . (CSS 1981 , 93 . ) We	examine	<b>in the next few chapters</b> what evidence there is to support this
Building on the work of previous historians , the <b>project will</b>	examine	<b>in detail</b> the effects of epidemic disease at the local level in
much insight . With the exception of <b>Mona Lisa</b> , it	examines	<b>in depth only recently</b> cleaned paintings , analysing changes in
the reader through the whole process of <b>doping control</b> . It	examines	<b>in depth</b> the <b>important</b> area of doping control of school-age

Screenshot 15: Concordance Lines for Pattern (3): \*Verb + preposition in BNC.

an area known as ' Truth Maintenance ' ) . To	investigate	<b>further the link between</b> planning and language a computer model
coming out in newspaper format each <b>week</b> . <b>Unable</b> to	investigate	<b>further the boundary between</b> body and spirit , Crookes moved on
taught to read can be improved . <b>We should continue</b> to	investigate	<b>how children learn</b> to read and the most effective media , methods
duty imposed by section 11(5) of the <b>Act of 1988</b> to	investigate	<b>how death occurred prevailed</b> in any conflict with the provision
we can not get computers to understand <b>them</b> . The <b>research</b>	investigates	<b>how adult readers understand</b> pronouns . It will show how
each required . Ongoing counselling <b>offered</b> the <b>opportunity</b> to	explore	<b>further areas ; regular</b> reviews at the old peoples ' home are
1991 . # THE SECRET RAPTURE by David <b>Hare</b> # <b>Prospect Drama</b>	explores	<b>how notions of morality</b> & ; personal relationships changed
on a handful . Murrie suggested Attlee <b>should be encouraged</b> to	scrutinize	<b>carefully the number of</b> committees being created and to
better price than they expected . # <b>TODAY 'S STEP</b> #	Examine	<b>carefully every specific selling</b> interface you and your people
those whose work is sold or published <b>abroad may need</b> to	examine	<b>carefully how their work</b> is likely to be affected by laws in
of deindustrialization . But it does point <b>to the need</b> to	examine	<b>carefully the social processes</b> registered by apparently
and reorganisation . <b>In addition the investigator</b>	examines	<b>critically the role of</b> the devolved government which operated
deals primarily with western industrial <b>society</b> , which <b>it</b>	examines	<b>descriptively in a somewhat</b> piecemeal fashion . Thus , except
Table 10.3 provides the alternative <b>presentation</b> . <b>Table 10.4</b>	examines	<b>each of the sectors</b> we identified at the beginning of the
underlying the study of variation . <b>Like</b> Gumperz , she	examines	<b>initially the use made</b> by speakers of linguistic variation

Screenshot 16: Concordance Lines for Pattern (4): \*Verb + adverb in BNC.

It would give her <b>time to explore</b> <b>and</b>	investigate	and she <b>would have</b> to pick her time carefully because she
Where possible the <b>analyst must identify</b> <b>and</b>	investigate	detailed <b>results</b> . This will be especially important where
is reduced when the <b>employer consults</b> <b>and</b>	investigates	the <b>wishes of those</b> affected before the move . If people
and elderly relatives . And they <b>identify</b> <b>and</b>	explore	thought-provoking <b>questions about</b> the implications
may help a <b>congregation to experiment</b> <b>and</b>	explore	new <b>possibilities</b> . <b>In</b> view of the Commission 's belief that
and Rodrigo Paestra . Maria <b>confronts</b> <b>and</b>	explores	her own <b>jealousy through</b> her obsession with the fugitive on
to truth which their <b>colleagues test</b> <b>and</b>	scrutinize	<b>to professional standards</b> , people make home brews from
port of Cascais . Chance to <b>discover</b> <b>and</b>	explore	historic Lisbon . <b>Visit</b> to the walled city of Obidos and the
approach could be <b>used to identify</b> <b>and</b>	explore	the <b>information needs of</b> an organisation . In this respect the
Wesley Smith sees how they <b>get on</b> <b>and</b>	explores	some of the <b>secrets</b> of the show 's success . # FIONA

Screenshot 17: Concordance Lines for Pattern (5): Verb + and + \* verb in BNC.

of inspectors to help the Saudi authorities investigate	the crash . This was the second plane crash of the year
take their investments so seriously that they investigate	the OTC companies personally . Their comments , although
will be able to attain full genitality unless we investigate	this realm , hmm ? " Full genitality ? " "
A standard latent inhibitor experiment investigates	transfer from a pre-exposure phase in which the target
. The Indian government claims that it investigates	all allegations of torture , but this rarely happens without
is well known . On the property side he investigates	title to land ; prepares contracts of sale , conveyances and
in that part of Dyfed . This project investigates	the possibilities for economic development which were open
April I said I was n't feeling comfortable    We investigate	and discovered that I was carrying more than half a litre of
and subsequent outcome . The authors explore	the idea that causal attributions made by survivors about
into long thread-like feelers with which they explore	the water ahead of them and , at breeding times , caress
for Scotland . This secondary analysis explores	further the nature and level of financial awards on divorce
it was that I really began to read . As he explores	the poetry of Byron at Salisbury he works hard at his

Screenshot 18: Concordance Lines for Pattern (6): NP + \*verb in BNC.

It is the most important subject intelligent persons can investigate	and reflect upon . " The government should never go into debt
Throughout the game , students must investigate	clues and talk to virtual characters . Another game . Expedition
stone in the bread of Kullervo . Drama contract We shall explore	some aspects of the theme (see above) . We shall
, the public can look at it , the press can scrutinize	it , both political parties can go at it , and ultimately
shocks in peer-reviewed journals , where experts could scrutinize	it . To defend his methods , he points to a bibliography
to recognize as reasonable . " 78 Thus , courts must scrutinize	any technology the government might seek to justify under the
Not Otherwise Specified (EDNOS) . 22 Future studies may examine	the combination of these characteristics , or other eating
a Goodness of Fit Index of .94 . Future research should examine	officials from other sports to identify similarities and

Screenshot 19: Concordance Lines for Pattern (7): Verb (modal) + \*verb in BNC.

officials as well as first responders have the ability to investigate	the incident to the fullest and determine if there is a credible
a layout at the user 's request . This ability to explore	and learn a space virtually before actually going there , called
we are aware , this is also the first study to explore	the relationship between prescribing errors and pharmacists '
expect the decision to spur civil-rights advocates to scrutinize	state constitutions for provisions guaranteeing not only
With its huge lightgathering power , it will be able to scrutinize	remote galaxies at the edge of the observable universe . " The
nor Monroe had any idea that he was being asked to examine	extraterrestrial sites : " Neither of us knew what we were

Screenshot 20: Concordance Lines for Pattern (8): Preposition (to) + \*verb in BNC.

important questions , and wo n't bother to report or investigate	or find out what happened so that we can make
, 1970 ; Rao & DeMaris , 1995 )    or investigates	only a very small set of behaviors (James et al . ,
but he can not take depositions or examine	witnesses in court .
The act of coding is generally to discover or explore	data for further analysis , which means that coding is
term , humans may colonize the Moon and Mars or explore	other planets in the solar system . But what about the

Screenshot 21: Concordance Lines for Pattern (9): Conjunction (or) + \*verb in BNC.

job to the best of a bad bunch    but investigate	where the recruiting methods and job specification may
rarely seems resistant to change as such    but scrutinizes	its social and moral effects , deciding each case
it before now . He does n't take a sample but examines	the water gushing through a drain from under the road

Screenshot 22: Concordance Lines for Pattern (10): Conjunction (but) + \*verb in BNC.

data series on the outcome of several such tests   <b>also</b>	investigate	will be the value of conducting sequences of tests , as is
never defensive or full of excuses . The Profitboss <b>will</b> <b>always</b>	investigate	the complaint , putting personal time , effort and resource into
tide was out . This in turn <b>compelled me to</b> <b>further</b>	investigate	the fascinating world of rocky shores . I lived on top of
had only looked at direct CFC warming effects , <b>will</b> <b>now</b>	investigate	the interactions . Similarly , IPCC is looking at the
one hand an economic considerations on the <b>other</b> ; <b>to</b> <b>further</b>	investigates	the impact of these changes on management culture and employee
more reliable or definitive . # 13 October # <b>Faul</b> <b>turtively</b>	investigates	the section in Pregnancy which details the part he played in the
housing movements in the ' East ' ; <b>it</b> <b>will</b> <b>also</b>	explore	the impact on protest activity of the different political
Word and not allowing enough time for the testers <b>to</b> <b>fully</b>	explore	the respective packages . The final punch line from WordPerfect
in new institutional settings . It would <b>be</b> <b>useful</b> <b>to</b> <b>further</b>	explore	some themes raised by the contributions to this section , First ,
book on Politics in <b>Industrial</b> Society <b>which</b> <b>carefully</b>	explores	the experience of the British system since 1911 . Middlemas
with prints by German Expressionists . The <b>exhibition</b> <b>further</b>	explores	cinema , theatre , and music , the latter with vintage recordings
of scientific information . The <b>project</b> <b>also</b>	explores	the extent to which the scientists ' (mis ) understanding of
clearly indicate the several blind alleys which <b>Frey</b> <b>here</b>	explores	Firstly , he misses the variety of forms in which perceptual
of scientific information . The <b>project</b> <b>also</b>	explores	the extent to which the scientists ' (mis ) understanding of
book on Politics in <b>Industrial</b> Society <b>which</b> <b>carefully</b>	explores	the experience of the British system since 1911 . Middlemas
health care provision in private nursing homes . <b>We</b> <b>must</b> <b>also</b>	examine	the way in which the run-down of resources through personal
for his constituency and for Kent generally . <b>it</b> <b>will</b> <b>certainly</b>	examine	the point that he raises . # House of Commons # Tuesday
consumers 1.5 billion a year better off . The <b>study</b> <b>also</b>	examines	the effects country by country . Unless compensated , Greece ,
actual rate of crime . The rest of the <b>extract</b> <b>then</b>	examines	how changes in the style of policing and law enforcement affect

Screenshot 23: Concordance Lines for Pattern (11): Adverb + \*verb in BNC.

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