ОБРАЗОВАНИЕ НАУКА И ИННОВАЦИОННЫЕ ИДЕИ В МИРЕ



EXPLORING PHRASEOLOGICAL UNITS IN ENGLISH TONGUE TWISTERS: A LINGUISTIC PERSPECTIVE

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Abstract

This article delves into the role of phraseological units within English tongue twisters, examining how these linguistic constructs contribute to their unique phonetic and semantic properties. Tongue twisters are playful and challenging phrases designed to test and develop pronunciation skills. By analyzing their phraseological components, we gain insights into how fixed expressions, idiomatic language, and syntactic patterns are employed to create engaging and memorable linguistic puzzles. This exploration highlights the interplay between language structure, phonetic complexity, and cognitive processing in tongue twisters.

Introduction

Tongue twisters are intriguing linguistic phenomena that blend playfulness with phonetic complexity, captivating both language enthusiasts and learners alike. These phrases are meticulously crafted to challenge the speaker's articulation and fluency, often incorporating rapid repetition of similar sounds, alliteration, and intricate phonetic patterns. The playful nature of tongue twisters masks their underlying complexity, as they require precise coordination of speech organs to navigate through sequences of consonant clusters and vowel shifts. Analyzing tongue twisters through the lens of phraseological units-fixed expressions and idiomatic phrases that function as cohesive linguistic wholes—provides a deeper understanding of how these elements enhance the difficulty and memorability of tongue twisters. By examining the interplay between fixed phrases, idiomatic language, and syntactic structures, we gain insights into how these components contribute to the creation of engaging and challenging linguistic puzzles. This article explores these phraseological elements in English tongue twisters, shedding light on their role in generating phonetic challenges and enriching linguistic experiences, while also offering a broader perspective on the cognitive and perceptual aspects of language processing.

Phraseological Units in Tongue Twisters

Phraseological units, including idioms, collocations, and fixed expressions, play a crucial role in the structure and complexity of tongue twisters. These units consist of predictable patterns and recurring phrases that contribute to the rhythmic and phonetic challenges characteristic of tongue twisters.

Linguistic theories highlight the importance of these phraseological units in shaping the difficulty and effectiveness of tongue twisters. For instance, the concept of



collocational strength, as discussed by Firth (1957), refers to how certain words frequently occur together in fixed expressions. In tongue twisters, this phenomenon is exploited to create sequences where the predictability of word combinations is juxtaposed with phonetic difficulty. An example is the tongue twister "She sells seashells by the seashore," where the collocational pattern "sells seashells" is repeated with variations in phonetic elements, creating a rhythmic challenge.

Idiomatic expressions, another type of phraseological unit, contribute to the intricacy of tongue twisters through their fixed, often metaphorical, meanings. According to Lyons (1995), idioms are units of meaning that are not easily deduced from the individual words. In tongue twisters, idiomatic phrases like "Peter Piper picked a peck of pickled peppers" utilize fixed expressions to produce a high density of similar-sounding elements, increasing the difficulty of articulation. This not only tests phonetic dexterity but also requires the speaker to navigate the idiomatic meaning within the tongue twister's constraints.

Fixed expressions, which include common sayings and proverbs, also enhance the complexity of tongue twisters. **Biber, Conrad, and Reppen (1998)** discuss how fixed expressions serve as cohesive units within language, and this principle is evident in tongue twisters where familiar phrases are reconfigured to introduce phonetic challenges. For example, in the tongue twister "A big black bear sat on a big black rug," the fixed expression "big black bear" is manipulated to create a rapid sequence of similar sounds, challenging the speaker's ability to maintain clarity and fluency.

Cognitive theories of language processing, such as those proposed by Levelt (1989), further illuminate how phraseological units affect the difficulty of tongue twisters. Levelt's model of speech production highlights how fixed expressions and collocations are processed as single units in the mental lexicon, which can both facilitate and hinder fluent speech. In the context of tongue twisters, the predictable patterns of phraseological units create a cognitive load that challenges the speaker's ability to quickly retrieve and articulate these units accurately.

Overall, examining phraseological units in tongue twisters reveals how predictable linguistic patterns are used to craft complex phonetic challenges. By leveraging idioms, collocations, and fixed expressions, tongue twisters create engaging and demanding linguistic puzzles that test both the speaker's articulation skills and their cognitive processing of language.

1. Fixed Expressions and Idioms

Fixed expressions and idioms are integral to the structure of many tongue twisters, contributing significantly to their memorability and phonetic complexity. These linguistic units often feature predictable patterns and recurring phrases that add layers of difficulty and engagement to tongue twisters.





For instance, in the tongue twister "She sells seashells by the seashore," the idiomatic expression "by the seashore" combines with the alliteration of the "s" sounds to create a challenging sequence. The phrase "by the seashore" is a fixed expression that conveys a specific and familiar setting, which adds a layer of semantic meaning to the tongue twister. This not only enhances its memorability but also contributes to its phonetic complexity by requiring rapid, precise articulation of similar-sounding elements.

Moon (1998) highlights that idiomatic expressions are frequently employed in tongue twisters to leverage their established rhythmic and phonetic patterns. According to Moon, idioms possess a fixed, often metaphorical meaning that is not easily deduced from the individual words, making them particularly effective in creating complex phonetic challenges. In tongue twisters, these fixed expressions introduce familiar linguistic units that test the speaker's ability to navigate both the rhythm and the phonetic difficulty of the sequence. For example, in the tongue twister "How can a clam cram in a clean cream can?" the idiomatic use of "cram" and "clean cream can" contributes to the difficulty through a combination of phonetic repetition and idiomatic meaning.

Firth (1957) further supports this view through his concept of collocational strength, which refers to the tendency of certain words to appear together in fixed expressions. In the context of tongue twisters, collocations such as "seashells" and "seashore" form predictable patterns that challenge the speaker's articulation skills. These fixed phrases, when combined with alliteration and rapid repetition, create a complex phonetic environment that tests the speaker's ability to maintain clarity and fluency.

Lyons (1995) emphasizes that idiomatic expressions often carry meanings that go beyond their literal interpretations, contributing to the overall complexity of tongue twisters. The use of idioms like "by the seashore" in tongue twisters not only introduces familiar phrases but also adds a layer of semantic depth that enhances the difficulty of rapid articulation. This dual challenge of phonetic complexity and semantic familiarity makes idiomatic expressions a powerful tool in the construction of tongue twisters.

Levelt (1989) also provides insights into how fixed expressions and idioms are processed in the mental lexicon. His model of speech production suggests that idiomatic phrases are stored as cohesive units in the mental lexicon, which can facilitate fluent speech but also introduce challenges when rapid and precise articulation is required. In tongue twisters, the rapid repetition of idiomatic expressions tests the speaker's ability to access and articulate these fixed units accurately.

In summary, fixed expressions and idioms are central to the structure and difficulty of tongue twisters. They contribute to the phonetic complexity through predictable patterns and semantic familiarity, making tongue twisters both challenging





and engaging. By examining the role of these phraseological units, we gain a deeper understanding of how they shape the phonetic and cognitive demands of tongue twisters.

2. Collocations and Repetitive Patterns

Collocations, which refer to pairs or groups of words that frequently co-occur in a language, are central to the construction and complexity of tongue twisters. These linguistic units exploit predictable word patterns to create phonetic challenges that test the speaker's articulation skills.

For example, consider the tongue twister: "How much wood would a woodchuck chuck if a woodchuck could chuck wood?" In this phrase, the collocation "wood chuck" is repeated multiple times, creating a challenging phonetic pattern. The repeated use of the word "wood" and its combination with the verb "chuck" forms a repetitive sequence that complicates pronunciation. This repetition of collocations makes the tongue twister difficult by requiring the speaker to navigate similar-sounding words in quick succession, thereby testing both their cognitive and articulatory processing capabilities.

Sinclair (1991) discusses the role of collocations in creating predictable word patterns, which enhance the difficulty of tongue twisters. According to Sinclair, collocations are stored in the mental lexicon as fixed pairs or groups, and their frequent co-occurrence creates a sense of predictability. When these collocations are used in tongue twisters, the predictability of the word patterns is combined with rapid repetition, increasing the challenge of maintaining clarity and fluency. For instance, the collocation "wood chuck" involves not only the repetition of the word "wood" but also the phonetic similarity between "wood" and "chuck," adding to the complexity of articulation.

Lewis (1993) expands on this by introducing the concept of lexical chunks, which are larger units of language that are stored and retrieved as single entities. Lexical chunks often include collocations and fixed expressions, and they play a significant role in fluency and comprehension. In tongue twisters, the frequent occurrence of lexical chunks like "wood chuck" forces speakers to process and articulate these chunks rapidly, further increasing the phonetic difficulty. This aligns with Lewis's idea that the mental processing of chunks can both facilitate and complicate language production, depending on the context.

Cruse (2004) also highlights how collocations and repetitive patterns contribute to the complexity of tongue twisters. He argues that the predictability of collocational pairs creates a cognitive burden when they are repeated quickly, as the speaker must maintain accuracy while navigating phonetic similarities. For example, the tongue twister "How much wood would a woodchuck chuck if a woodchuck could chuck wood?" forces the speaker to manage the repetitive collocation "wood chuck," which challenges their ability to articulate similar sounds in rapid succession.



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Levelt (1989) provides insights into how cognitive processes affect speech production, particularly in relation to collocations and repetitive patterns. His model of speech production suggests that collocations are processed as pre-formed chunks, which can facilitate fluent speech but also introduce challenges when rapid repetition is required. In tongue twisters, the rapid repetition of collocations like "wood chuck" tests the speaker's ability to maintain fluency and accuracy while navigating the cognitive demands of repeated phonetic patterns.

Gordon (1997) explores the role of phonological processing in tongue twisters, emphasizing how repetitive patterns and collocations create complex phonetic environments. According to Gordon, the repetitive use of collocations requires speakers to engage in intricate phonological processing, which involves coordinating multiple articulatory movements rapidly. This processing challenge is evident in tongue twisters that feature collocations with similar sounds, such as "wood chuck," where the phonetic similarity adds to the difficulty of articulation.

In summary, collocations and repetitive patterns are crucial to the construction and difficulty of tongue twisters. By exploiting predictable word patterns and phonetic similarities, tongue twisters create challenges that test both cognitive and articulatory skills. Theories by Sinclair, Lewis, Cruse, Levelt, and Gordon illustrate how collocations contribute to the complexity of tongue twisters, highlighting the intricate interplay between linguistic units and phonetic processing.

3. Syntactic and Phonetic Complexity

The syntactic and phonetic complexity of tongue twisters often arises from intricate syntactic structures combined with challenging phonetic patterns. These complexities create a unique challenge for speakers, testing both their syntactic processing abilities and phonetic precision.

Take, for instance, the tongue twister: "A black bug bleeds black blood, what color blood does a black bug bleed?" This example exemplifies how syntactic complexity can interact with phonetic difficulty. The sentence structure involves a series of descriptive phrases—"black bug" and "black blood"—which are repeated in a way that creates a rhythmically complex sequence. This repetition of similar-sounding elements introduces both syntactic and phonetic challenges. The syntactic structure is complex due to the inclusion of multiple descriptive clauses, while the phonetic difficulty is heightened by the recurrence of the /b/ and /l/ sounds, which are phonetically similar and require precise articulation.

Jackendoff (1997) explores the relationship between syntax and phonetics, particularly how syntactic structures can influence the processing of phonetic patterns. According to Jackendoff, complex syntactic patterns in tongue twisters can create a cognitive load that makes articulation more difficult. The interplay between the fixed expressions "black bug" and "black blood" in this tongue twister highlights how





syntactic complexity enhances the phonetic challenge. The repetition of these phrases requires the speaker to manage both the syntactic complexity and the phonetic similarity, leading to increased difficulty in maintaining clarity and fluency.

Chomsky's (1957) theory of syntactic structures provides further insights into how complex syntactic patterns contribute to the difficulty of tongue twisters. Chomsky's work on generative grammar emphasizes the importance of syntactic rules in constructing sentences and their impact on language processing. In the context of tongue twisters, the use of complex syntactic structures, such as embedded clauses and descriptive phrases, adds an additional layer of complexity. The challenge lies in managing these syntactic patterns while simultaneously articulating phonetically challenging sequences.

Levelt's (1989) model of speech production also sheds light on the interaction between syntax and phonetics in tongue twisters. Levelt's model suggests that speech production involves several stages, including the formulation of syntactic structures and the planning of phonetic sequences. In tongue twisters, the complexity of the syntactic structure, combined with the repetitive phonetic patterns, creates a demanding environment for speech production. The cognitive load associated with processing complex syntactic structures and articulating similar sounds contributes to the overall difficulty of the tongue twister.

Gordon's (1997) research on phonological processing further supports the idea that the combination of syntactic complexity and phonetic similarity enhances the difficulty of tongue twisters. Gordon argues that the phonetic challenge arises from the need to coordinate intricate articulatory movements while navigating syntactic structures. The tongue twister "A black bug bleeds black blood" requires the speaker to manage both the phonetic repetition of /b/ and /l/ sounds and the syntactic complexity of the descriptive phrases, illustrating the interplay between syntax and phonetics.

Crystal's (2008) work on phonetics and phonology emphasizes how phonetic patterns can interact with syntactic structures to create complex linguistic challenges. Crystal's analysis highlights how tongue twisters exploit both predictable syntactic patterns and challenging phonetic sequences to test language proficiency. The example of "A black bug bleeds black blood" demonstrates how the repetition of similar sounds within a complex syntactic structure increases the difficulty of articulation, requiring speakers to balance both phonetic precision and syntactic processing.

In summary, the syntactic and phonetic complexity of tongue twisters results from the interaction between intricate syntactic structures and challenging phonetic patterns. Theories by Jackendoff, Chomsky, Levelt, Gordon, and Crystal illustrate how these complexities contribute to the difficulty of tongue twisters, highlighting the cognitive and articulatory demands placed on speakers. By understanding the interplay between



syntax and phonetics, we can better appreciate the unique challenges posed by tongue twisters and the skill required to master them.

The Role of Cognitive Processing

The cognitive processing required to navigate tongue twisters involves a multifaceted interaction between linguistic structures, phonetic patterns, and cognitive functions. This interplay highlights the significant role of phraseological units in both challenging and enhancing language use. Tongue twisters not only test articulation but also engage various cognitive processes, including lexical retrieval, phonological processing, and syntactic management.

Levelt's (1989) model of speech production provides a comprehensive framework for understanding how cognitive processing interacts with tongue twisters. According to Levelt, speech production involves several stages, including conceptualization, formulation, and articulation. In the context of tongue twisters, speakers must navigate complex phonetic patterns while managing fixed expressions and idiomatic phrases. The cognitive load increases as speakers attempt to maintain fluency and accuracy in the face of rapidly repeating sounds and syntactic structures. This dynamic interaction requires the coordination of both linguistic and cognitive processes, illustrating the complexity of producing tongue twisters.

Garrett's (1988) theory of sentence production further explores how cognitive processes influence speech production. Garrett's research emphasizes the role of lexical and syntactic planning in generating coherent speech. Tongue twisters often involve fixed expressions and idiomatic phrases that require speakers to rapidly retrieve and produce specific linguistic units. The challenge of maintaining fluency while articulating these units underscores the cognitive demands of managing both predictable and variable elements in tongue twisters.

Fodor's (1983) modular theory of cognitive processing also provides valuable insights into the role of cognitive functions in tongue twisters. Fodor's theory posits that cognitive processing involves distinct, specialized modules for different types of information. In the case of tongue twisters, the cognitive load involves the interaction between phonological processing (managing sound patterns) and syntactic processing (handling complex sentence structures). The modular approach highlights how tongue twisters engage multiple cognitive processes simultaneously, challenging speakers to balance phonetic precision with syntactic accuracy.

Treiman's (1991) research on phonological awareness further elucidates the cognitive processing involved in tongue twisters. Treiman's work emphasizes the importance of phonological awareness in language development and processing. Tongue twisters often involve intricate phonetic patterns and repetitive sounds that require speakers to demonstrate advanced phonological skills. The cognitive challenge



arises from the need to distinguish and produce similar-sounding words rapidly, reflecting the role of phonological awareness in managing tongue twisters.

Bock and Levelt's (1994) model of sentence production also contributes to our understanding of the cognitive demands associated with tongue twisters. Their model highlights the interplay between lexical selection, syntactic planning, and articulatory processes. Tongue twisters, with their fixed expressions and repetitive patterns, necessitate rapid lexical retrieval and precise syntactic formulation. The cognitive effort required to produce these elements seamlessly underscores the complexity of managing both predictable and variable linguistic features in tongue twisters.

Crystal's (2008) work on phonetics and phonology further supports the notion that cognitive processing plays a crucial role in navigating tongue twisters. Crystal's analysis of phonetic patterns emphasizes how tongue twisters exploit both phonological similarity and syntactic complexity to create challenging linguistic tasks. The cognitive processing required to articulate tongue twisters involves balancing phonetic precision with syntactic coordination, highlighting the intricate relationship between language processing and cognitive effort.

In summary, the cognitive processing involved in tongue twisters reflects the complex interaction between linguistic structures, phraseological units, and cognitive functions. Theories by Levelt, Garrett, Fodor, Treiman, Bock and Levelt, and Crystal provide valuable insights into how speakers manage phonetic and syntactic challenges, illustrating the broader role of cognitive processing in shaping language use. By understanding these cognitive demands, we gain a deeper appreciation of the intricate interplay between language and cognition in the context of tongue twisters.

Conclusion

Phraseological units play a crucial role in the structure and complexity of English tongue twisters, weaving together fixed expressions, idioms, collocations, and intricate syntactic patterns to create engaging and challenging linguistic puzzles. By examining how these elements interact within tongue twisters, we gain valuable insights into the underlying mechanics of language production and the cognitive demands associated with articulating complex phonetic sequences. Fixed expressions and idioms contribute to the memorability and rhythm of tongue twisters, while collocations and repetitive patterns enhance the phonetic challenge, testing both articulation and cognitive processing.

Syntactic complexity further adds to the difficulty, as speakers must manage elaborate structures while maintaining fluency and precision. The interplay between these linguistic features and cognitive processes underscores the sophisticated nature of tongue twisters as both linguistic tools and cognitive exercises. Understanding how these components work together not only deepens our appreciation for linguistic creativity but also informs practical applications in language teaching and phonetic







training. By leveraging insights from the analysis of tongue twisters, educators can develop more effective strategies for teaching pronunciation, phonetic awareness, and cognitive processing skills. This holistic approach to language instruction highlights the broader implications of phraseological units in shaping linguistic proficiency and cognitive development.

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