The Core Vocabulary: The Foundation of Proficient Comprehension

Elfrieda H. Hiebert

Learn about three features of the word and world knowledge that underlie the core vocabulary of approximately 2,500 word families that account for the majority of words in texts.

The words our students know make a big difference in how well they comprehend texts. Consider this excerpt from a third-grade favorite, The One and Only Ivan by Katherine Applegate (2012): “‘Humans reek,’ Bob replies. ‘They just don’t notice because they have incompetent noses’” (p. 201). If third graders cannot quickly recognize the meanings of moderate-frequency words such as replies and notice and struggle with low-frequency words such as reek and incompetent, they will have a hard time understanding Bob’s critique of how bad humans are at smelling—and how bad they smell.

Words represent knowledge, and knowledge about a text’s topic strongly predicts students’ comprehension of a text (Verhoeven, van Leeuwe, & Vermeer, 2011). When students’ vocabularies are not large on entering school, students’ prospects for reading success depend on the richness of their school experiences. As educators, however, we face a formidable task in providing rich vocabulary instruction. The challenge may seem to come from the vastly differing vocabularies of students on school entry, but the real obstacle is the tidal wave of words in the English dictionary. A comprehensive analysis of school texts identified more than 150,000 different words in a sample of typical books from kindergarten through college (Zeno, Ivens, Millard, & Duvvuri, 1995). English as a whole has even more words—as many as 300,000 more (Leech, Rayson, & Wilson, 2001; Nagy & Anderson, 1984). Yet, even these numbers do not tell the whole story, because many unique words have multiple meanings. One example is notice, which has a meaning as a verb—as used by Bob in the previous excerpt—as well as two meanings as a noun (attention and notification).

The typical approach of teaching six to eight vocabulary words from a specific story has not proven especially successful in extending students’ vocabularies (see, e.g., Apthorp, 2006). Looking at the typical words selected for a week of instruction for third graders in a core reading program—batted, buzzing, clattered, fetch, rattled, rough, slick, sniff, and thumped (Baumann et al., 2014)—gives a clue as to why this approach has not been highly effective. All the words but one (rough) are predicted to appear rarely in future texts (Zeno et al., 1995) and in conversations (Kuperman, Stadthagen-Gonzalez, & Brysbaert, 2012). Further, all the words have easily recognizable synonyms (e.g., fetch/get, clattered/crash). After a week of instruction, students will not have added significantly to their vocabularies.

Which words should be taught, then? The same global, digital world that imposes higher demands for literacy offers evidence-based answers. Digital scanning of texts enables the study of millions of words from texts. Apps and websites quickly provide information on word features such as membership in morphological families and the age at which words are heard and used in students’ oral language. Findings from these digital efforts offer insights on how to teach vocabulary strategically. This article summarizes these insights and applies this evidence-based information to the design of instructional experiences in classrooms.

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The Core Vocabulary: Why and How

The basis for selecting six to eight words for a week of vocabulary instruction in many reading programs has little documentation (see, e.g., Stallman et al., 1989). Over the past two decades, several approaches for selecting words have been proposed as ways to bolster the rigor of vocabulary instruction.

Approaches for Selecting Vocabulary to Teach

The three-tier model (Beck, McKeown, & Kucan, 2013) has become the favored choice for vocabulary selection in pedagogy textbooks, core reading programs, and even the National Assessment of Educational Progress (National Center for Education Statistics, 2017). The instructional emphasis is on the middle tier—general academic words or synonyms of common words—rather than the everyday words of tier 1 or the technical words of tier 3. Assigning words to tiers can be hard, however, even for experts. Of 13 words identified by the writers of the Common Core State Standards (National Governors Association Center for Best Practices & Council of Chief State School Officers, 2010a) as exemplifying tier 2 words for fourth and fifth graders, all are predicted to be in students’ oral vocabularies by age 8 (Kuperman et al., 2012)—words such as early and pours. At the same time, four of the five words that were identified as tier 3 are multiple-meaning words with a strong likelihood of appearing in both literary and informational texts (e.g., crust, molten). Evaluations of interventions with tier 2 words have not shown consistent effects on either standardized comprehension (Elleman, Lindo, Morphy, & Compton, 2009; Wright & Cervetti, 2017) or vocabulary measures (Cervetti, Fitzgerald, Hiebert, & Hebert, 2019).

In Biemiller’s (2010) “words worth teaching” approach, words come from an historical database (Dale & O’Rourke, 1981) that was later enhanced (Biemiller & Slonim, 2001). The methods of the original study remain vague, resulting in some unusual recommendations; for example, words considered worth teaching in the upper elementary grades come from both ends of the frequency spectrum—from most (very much) and must (have to) to mulligan (a stew) and muss (a mess). Although mulligan and muss are likely to appear less than once in every 2 million words of text, the words most and must are on most high-frequency word lists.

Nagy and Hiebert (2011) offered a third approach: a word selection framework based on research on word acquisition and distributions of words in texts. They recommended selecting vocabulary on the basis of answers to questions such as these: How often can a word be expected to appear in texts at specific grade levels? How many close morphological relatives does a target word have? How likely is the word already known by students at a grade level, and, if unfamiliar, can the word be easily explained with already known concepts or experiences?

From this perspective, a word such as incompetent from The One and Only Ivan would be the focus of instruction, rather than reek; inefficient and members of its morphological family (e.g., words with the same root, including competence and competently) are likely to appear over 125 times more frequently than reek and its family members in school texts (Zeno et al., 1995). Reek also can be explained easily with the synonym smell, a word that third graders typically know. In contrast, the synonyms for incompetent are themselves fairly complex words: inept, inefficient, inadequate.

Identifying a Core Vocabulary

A group of researchers (Hiebert, Goodwin, & Cervetti, 2018) set out to determine whether they could use the Nagy and Hiebert (2011) criteria to identify a “core vocabulary,” a set of words that account for a substantial percentage of the words in school texts. Students who are automatic with the meanings of the majority of words in texts, these researchers reasoned, will have a strong foundation for text comprehension. The researchers targeted 90% of the words in text as the goal for a core vocabulary because scholars such as Clay (1991) have identified this level as sufficient for comprehension.

The core vocabulary was identified through three steps: identifying words with moderate to
high frequency in school texts, sorting the identified words into morphological families, and verifying that the core vocabulary makes up 90% or more of the words in school texts.

**Identifying Words With Moderate to High Frequency in School Texts.** Although several databases of word frequency (e.g., Davies, 2009) are based on half a billion or more words of texts, an interest in the words of school texts led to the use of The Educator's Word Frequency Guide (Zeno et al., 1995). This list summarizes words in a sample of school texts across grades (kindergarten through college) and content areas (literature and content area texts). It also includes frequencies of words at different grade levels, which is critical in selecting words for instruction, as not all words appear with similar frequency across the grades. Take the words government and big, which are both among the 300 most frequent words. Government has few appearances in the primary grades; big is frequent in the primary grades but not in middle or high school.

The distribution of all unique or different words from The Educator's Word Frequency Guide across five categories of frequency appears in Table 1. To be included in the core vocabulary, words needed to appear with sufficient frequency in school texts to merit instructional attention. The number of repetitions associated with students' knowledge of a word’s meaning is approximately 10 (McKeown, Beck, Omanson, & Pople, 1985; Reitsma, 1988). Almost 6,000 words on the list met the criterion of 10 or more appearances per million words. When proper names were excluded, the group consisted of 5,586 words.

**Sorting Words Into Morphological Families.** The next step was to sort the words into morphological families—that is, groups of words sharing a root word (e.g., help: helping, helpless, unhelpful). Many beginning readers make the connection between words with the same root word (e.g., day, days; Anglin, 1983). Further, instruction can be successful for students who do not make these connections (Goodwin & Ahn, 2010), especially when morphological connections go beyond inflected endings to compound words (e.g., birthday, daytime) or affixes (e.g., daily). The 5,586 words were sorted into 2,451 (rounded up to 2,500) morphological families. With family members from the relatively rare group (see Table 1), the 2,500 lead words represent 11,298 words in all. That is, each lead word in the core vocabulary represents a family of approximately five words.

**Verifying the Presence of Core Vocabulary in Texts.** The prominence of the core vocabulary in texts was verified by an analysis of all 200 texts identified in Appendix B of the Common Core State Standards (National Governors Association Center for Best Practices & Council of Chief State School Officers, 2010b) as exemplars of complex texts. The 2,500 word families averaged 91.5% of the total words in texts across six grade bands spanning from kindergarten through College and Career Ready (CCR). The percentage was highest in K–1 texts (97%) and decreased to 89% for grade 11–CCR texts. A majority of the word families appear by the end of primary-level texts (1,787), another 511 become prominent in middle-grade through middle school texts, and the remaining 153 families appear in high school texts.

**What Is Involved in Proficiency With the Core Vocabulary?** The core vocabulary is much more than a list of 2,500 word families to be memorized. Adeptness in recognizing the meanings represented in the core vocabulary includes developing connections across semantically related ideas, generalizing root word meanings across family members, and recognizing that words can take on multiple meanings. The semantic, morphological, and multiple-meaning features of five words (all from the moderately frequent and average concrete group in Table 1) are summarized in Table 2 and are used to illustrate the three types of connections.

**Semantic Connections**
The meanings of words are connected to one another in semantic networks. As illustrated in Table 2, the meaning of sick is associated with words such as disease and germs and specific ailments (cold, fever). A framework that has proven useful in establishing concepts among words is the supercluster framework of Marzano and Marzano (1988), who set out to establish semantic relationships among 7,230 words from core reading programs. Words were organized around three hierarchical relationships: 61 superclusters in which words share a broad meaning (e.g., occupations, emotions, machines), 430 clusters in which words share a specific meaning (e.g., outdoor professions, one of 30 clusters within occupations), and 1,500 miniclusters in which meanings are synonymous (e.g., hunter, one of five miniclusters within outdoor professions).

All 61 superclusters (Marzano & Marzano, 1988) are present in the 2,500 word families. Some
### Table 1
Distribution of Words and Word Families in Written English

<table>
<thead>
<tr>
<th>Word category</th>
<th>Predicted appearances per million words of text</th>
<th>Percentage accounted for in Common Core texts</th>
<th>Number of words</th>
<th>Number of morphological families</th>
<th>Examples of lead word</th>
<th>Highly abstract (1–1.5 on 5-point scale)</th>
<th>Average (3 on 5-point scale)</th>
<th>Highly concrete (5 on 5-point scale)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly frequent</td>
<td>68,006–300</td>
<td>65.2%</td>
<td>310</td>
<td>239</td>
<td>would, if, though, because, as</td>
<td>example, said, last, several, look</td>
<td>return, force, meet, spent, grow</td>
<td>water, house, feet, face, sun</td>
</tr>
<tr>
<td>Frequent</td>
<td>299–100</td>
<td>13%</td>
<td>620</td>
<td>380</td>
<td>perhaps, actually, suppose, instead, rather</td>
<td></td>
<td></td>
<td>trees, horse, fish, birds, bed</td>
</tr>
<tr>
<td>Moderately frequent</td>
<td>99–10</td>
<td>14.7%</td>
<td>4,656</td>
<td>1,832</td>
<td>despite, seldom, normal, merely, ideal</td>
<td>current, invite, sick, technology, trial</td>
<td></td>
<td>turtle, tomatoes, stairs, sand, pillow</td>
</tr>
<tr>
<td>Relatively rare</td>
<td>9–1</td>
<td>4.9%</td>
<td>13,882</td>
<td></td>
<td>whatsoever, infinitely, ultimately, intangible, thereof</td>
<td>trance, pry, jumble, gossip, accumulate</td>
<td></td>
<td>walrus, vase, umbrella, tulip, tractor</td>
</tr>
<tr>
<td>Very rare</td>
<td>&lt;1</td>
<td>2.2%</td>
<td>135,473</td>
<td></td>
<td>object, jeopardy, awry, pathogenic, deviate</td>
<td>inflammable, martyr, juncture, psychedelic, relinquished</td>
<td></td>
<td>oriole, smock, tattoo, rhubarb, thistle</td>
</tr>
</tbody>
</table>
Table 2
Illustrations of Semantic, Morphological, and Multiple-Meaning Connections of Moderately Frequent Words in the Core Vocabulary

<table>
<thead>
<tr>
<th>Category</th>
<th>Period or type</th>
<th>sick (Early)</th>
<th>invite (Middle)</th>
<th>current (Middle)</th>
<th>technology (Late)</th>
<th>trial (Late)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semantic</td>
<td>Early</td>
<td>care, doctor, fever, germs, hospital, ill, nurse, pain, sore, medicine, fever</td>
<td>ask, welcome</td>
<td>now, present, happening, latest</td>
<td>fair, wrong, right</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Middle</td>
<td>patient, wound, disease, operation, poorly, cancer, medical, temperature, heal, unwell, infection, treatment</td>
<td>offer, suggest, request, attract</td>
<td>live, popular, actual, modern, existing</td>
<td>camera, equipment, platform</td>
<td>crime, guilty, defend, law, court, judge</td>
</tr>
<tr>
<td></td>
<td>Late</td>
<td>bacteria</td>
<td>propose</td>
<td></td>
<td>terminal, computer, machinery, mechanics</td>
<td>ruling, sentence</td>
</tr>
<tr>
<td>Morphological</td>
<td>Inflected endings and comparatives</td>
<td>sicken, sicker, sickest</td>
<td>invites, invited, inviting</td>
<td>currents</td>
<td>technologies</td>
<td>trials</td>
</tr>
<tr>
<td></td>
<td>Affixes</td>
<td>sickly, sicklier, sickish, sickness</td>
<td>invitingly, inviter, invitee, invitingness, invitation, invitatory, disinvite, unwinvited, reinvite</td>
<td>currently, currentness, currency</td>
<td>technological, technologic, technologist, technologize</td>
<td>mistrial, pretrial, posttrial, retrial</td>
</tr>
<tr>
<td>Compound words</td>
<td></td>
<td>heartsick, homesick, sickroom, sickbed, seasick, airsick, carsick, sick list, sick leave, sick pay</td>
<td></td>
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<th>sick (Early&lt;sup&gt;a&lt;/sup&gt;)</th>
<th>invite (Middle&lt;sup&gt;b&lt;/sup&gt;)</th>
<th>current (Middle)</th>
<th>technology (Late&lt;sup&gt;c&lt;/sup&gt;)</th>
<th>trial (Late)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple meanings&lt;sup&gt;d&lt;/sup&gt;</td>
<td></td>
<td>adjective: affected by physical or mental illness</td>
<td>verb: to make a formal or polite request of someone</td>
<td>adjective: existing or being used now</td>
<td>noun: machines and equipment developed from the application of scientific knowledge</td>
<td>noun: a legal process in which a court of law examines a case to decide if someone is guilty of a crime</td>
</tr>
<tr>
<td></td>
<td></td>
<td>adjective: feeling nauseous and wanting to vomit</td>
<td>verb: to elicit a particular response, or to tempt someone to do something</td>
<td>noun: a flow of electricity; the rate of flow of electric charge</td>
<td>noun: the general course of events or opinion</td>
<td>noun: a test of performance of someone or something</td>
</tr>
</tbody>
</table>

<sup>a</sup>Semantic and morphological relatives of the focus word are based on the first meaning of the word (final row of this table). <sup>b</sup>Early, middle, and late refer to bands of age at which the word is predicted to be in students’ oral language: Early = age 5.9 or earlier; middle = ages 6 through 8.9; late = ages 9 and beyond. <sup>c</sup>The morphological relatives are in The Educator’s Word Frequency Guide, although not all are in the highly or moderately frequent groups. <sup>d</sup>All definitions are from Dictionary.com.
superclusters are heavily populated, such as animals and emotions. Other superclusters, such as chemicals and electricity/particles of matter, have few members, as is the case in the original classification. Even so, a broad and encompassing range of concepts is represented within the 2,500 word families. The size and diversity of semantic networks for the five focus words is evident in Table 2.

Information on when semantic relatives are predicted to appear in students' oral vocabularies is included in Table 2. The levels (i.e., early, middle, late) at which words appear in students' oral language underscore the role that already known words can have in building understanding of new words. For example, students can bring their knowledge of a number of related concepts (e.g., fair, wrong, right, crime) when learning the word trial in the middle grades.

**Morphological Connections**

Morphology has to do with shared meanings as a function of word parts. Morphemes, the smallest individual meaningful elements in a language, take several forms. The fundamental unit is the root word, which functions on its own (e.g., invite). The simplest form of bound morphemes, which are added to root words and do not function on their own, are inflected endings (e.g., invited, inviting, invites). Other examples of simple bound morphemes are possessives (e.g., trial's) and comparatives (e.g., sicker, sickest). In the next group of prefixes and suffixes, part of speech (e.g., invitation) and meaning (disinvite) can shift. Another morphological construction is the compound, where two (and sometimes more) root words are joined to form a new word. For example, sick forms compounds both as a head word (sickbed) and as a base word (carsick).

The types of word families for the focus words in Table 2 vary from one another. These variations in morphological types are a function of linguistic origins. The first source of English—Anglo-Saxon, a Germanic language—is illustrated by the word sick. Like many words in this layer of English, the monosyllabic sick is in numerous compound words, many of which have idiosyncratic meanings. A sickbed is not a bed that is sick but a place where a sick person lies. In that compound words are extensive in English, applying the meanings of the words in compounds is fundamental to proficient reading of the core vocabulary.

The words invite, current, and trial come from the French layer of English, which originated in Latin. Words in this layer are frequently multisyllabic synonyms of Anglo-Saxon words, as illustrated by current (French) and now (Anglo-Saxon). Affixes are the primary way in which new meanings are generated in this layer of English.

In Table 2, technology represents a word with Greek roots, a third contributor to English. Similar to Anglo-Saxon words, a primary way of generating new words in Greek-origin words is to create compounds. However, in Greek-origin words, the meanings are fairly straightforward. The meaning of techno (technical) stays the same in technophile (a person who dislikes technology), and -logy/-ology (the study or science of a field) has the same meaning in hydrology (the study of water).

**Knowledge of Multiple Meanings**

Polysemy—from the Greek words poly (many) and sema (sign)—refers to the multiple meanings of words. Most of the lead words in the 2,500 word families have multiple meanings, as illustrated by the five focus words in Table 2. For some words, the meanings for a single word are not vastly different, as in the case for the two meanings of sick. For other words, as illustrated by the word current, meanings can be quite different. The everyday meaning of a word such as current, which is almost always learned first, can interfere with students' learning of technical meanings (e.g., air, water, or electrical currents; Cervetti, Hiebert, Pearson, & McClung, 2015). Awareness of polysemy is useful from the early stages of reading because many polysemous words (e.g., can, bill, sink) often appear in beginning reading programs.

**How Can Teachers Support Students’ Facility With the Core Vocabulary?**

The description of the semantic, morphological, and multiple-meaning connections within the core vocabulary shows why these words need to be taught in relation to one another and not as individual words. Before I describe instructional ways to support these connections, two points merit attention.

First, not all words need to be taught. Table 1 shows examples of concrete words. In all, 32% of the core vocabulary words are highly concrete. Concrete words are typically learned easily, especially when words are nouns rather than verbs (McDonough, Song, Hirsch-Pasek, Golinkoff, & Lannon, 2011), which is the case with most of the concrete words in the core vocabulary. Pictures can go a long way in supporting students' knowledge of concrete words.
Further, a significant group of words (approximately a quarter of the lead words) are likely to be in students’ oral vocabularies when they enter school. Table 2 shows some of these words, which appear in the row for the early period. Young students may not use the words invite and current, but they are likely to use words such as ask and now. These known words can be the anchor for acquiring new words. For example, a known lead word such as sick can support knowledge of potentially unknown words in the semantic family (e.g., temperature, fever) or morphological family (e.g., sickness, sickly).

Second, a focus on the core vocabulary does not mean that rare words are dismissed or disregarded. The core vocabulary can be the means of building a robust vocabulary of the words that occur less frequently in text. Returning to the excerpt from The One and Only Ivan, a word in the core vocabulary such as smell can be used to build knowledge of reek and other related words not in the text, including ones that are rare, such as olfactory and fetid.

These two principles should be kept in mind when thinking about core vocabulary instruction: Not all words need to be taught, and known words can be the basis for expanding students’ knowledge of rare words.

**Extensive Reading**

Just as with many other proficiencies in life, a person only gets good at reading by reading extensively. However, not just any text will ensure facility with the core vocabulary. All texts are likely to have a high percentage of core vocabulary, but getting good at particular words within the core vocabulary requires repetition of those words. Remember that all of the words in the core vocabulary do not occur at once. The words that are new to the core vocabulary at a grade band represent the growing edge of students’ vocabulary learning. Such is the case with many of the words in the moderate frequency category in Table 1, which increase in prominence in middle-grade texts and beyond. Repeated encounters with these words in texts are critical, and such encounters are more likely to occur when instructional texts are organized around topics than simply around text complexity.

To illustrate the nature of opportunities with moderately frequent words when text sets are selected according to different criteria, 2,300 words were analyzed from two sets of texts. All texts were nonfiction and had the same guided reading levels (N through O). The text complexity set came from a leveled program (Fountas & Pinnell, 2008) and covered various topics, including volcanoes, skateboarding, and unusual snakes. The second set of texts—labeled Topic/Text Complexity—came from several leveled text programs, but all were chosen for their content on growing giant fruits and vegetables.

A summary in Table 3 shows that the topically related texts had 50% more words that were repeated three times or more than the text set based on text complexity only. Quantity, however, is only one way in which the moderately frequent words differ in these two text types. Conceptual networks of repeated words also vary as a function of text type. In the texts organized by complexity only, two pairs of words represent semantic clusters. In the texts grouped by complexity and topic, five semantic clusters with two to eight members are evident. Topical text sets give students the chance to generalize their knowledge of words across texts and, in the process, build a coherent knowledge base—the foundation of proficient comprehension.

**Conversations**

Conversations have been shown to be a powerful means of supporting students’ awareness and knowledge of vocabulary (Cabell, Justice, McGinty, DeCoster, & Forston, 2015). The sophistication of the content of conversations changes over the grades, but two types of conversations support students’ vocabulary development, whatever the grade level.

**Conversations That Highlight Intriguing Uses of Words.**

One type of conversation foregrounds intriguing uses of words in high-quality literature. Figurative language draws heavily on core vocabulary (Glucksberg, 2001), and thus students can develop a rich knowledge of metaphors and similes early in their school careers. Nancy (all names are pseudonyms), a second-grade teacher, has read several books to her students in which the full moon is described figuratively with words from the core vocabulary, examples of which appear in Table 4. Nancy demonstrated to her students how words they already used in reading and speaking could be used figuratively in their writing. Among the descriptions of the full moon given by Nancy’s students were the following:

- Jorge: giant baseball
- Zari: pancake
- Jin: marble
- Maya: cotton ball with dirt on it
Conversations on the Presence of Core Vocabulary in Texts. The second type of conversation addresses the ratio of core to rare words in texts. In particular, awareness of the prominence of core vocabulary in virtually all texts can be useful when students confront the summative assessments of their district or state. Malcolm, a third-grade teacher, used a passage illustrative of those on summative assessments to demonstrate to his students that they have the proficiency to successfully read the texts on assessments:
One reason for the change is that video games are a national passion in South Korea. More than three in four homes have Internet access. There are 15,000 Internet cafes. Many cafes stay open 24 hours a day. Video-game contests are huge events. Winners become famous. (Reid, 2013, p. 7)

Malcolm asked students to use their knowledge of the core vocabulary, context, and word features to give meaning to the rare words in the text (underlined in this example). Through conversations such as this one, Malcolm’s students have learned that a small number of rare words will always be present in texts, but their core vocabulary proficiency enables them to understand the meaning of rare words and to comprehend the questions that follow the passage.

**Minilessons**

A project in Bernice’s fourth-grade classroom illustrates how minilessons on the core vocabulary involve students as partners in identifying multiple meanings of core vocabulary words in texts. Multiple meanings of words can be especially confusing for students when words are common in conversations but have technical, specific meanings in content areas (Cervetti et al., 2015). Bernice has posted a set of such words: channel, cycle, force, power, and concentration. Among the text excerpts that Bernice’s students identified in their reading for the word concentration are the following.

- **Literature:** “I worked in deep concentration as did the other kids” (Soto, 1996, p. 21).
- **Social studies:** “To prevent concentration of power, the U.S. Constitution divides the central government into three branches and creates a system of checks and balances” (Wei, n.d., para. 2).
- **Science:** “We get it [our drinking water] from one of the many freshwater sources that have a lower concentration of salt and other dissolved solids than seawater” (Readworks, 2013, pp. 2–3).

In minilessons centered on the text excerpts, students read one another’s contributions and compared the uses of the same word. Minilessons ended with Bernice asking students to write a summary of what they had learned about words in their notebooks. An example of a student’s summary is, “Often, the same word can have very different meanings and uses in texts.”

**Conclusion**

Words are central to acquiring, remembering, and using knowledge. The digital revolution has led to new understandings about the words in school texts. One of the insights from this work has been the role of a relatively small part of the English lexicon—a group of 2,500 word families—that accounts for a sizable portion of texts at all levels. A solid foundation in this core vocabulary is built on knowledge of underlying systems and features of words, not simply memorizing the meanings of individual words. Deep knowledge of the words in the core vocabulary comes from guided conversations and minilessons in which shared and unique features are discussed, as well from as extensive reading. Such experiences are critical for all students if they are to acquire the vocabulary foundations that underlie the literacy proficiency required for the digital, global age.

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**Table 4**

**Examples of Figurative Language in the Core Vocabulary**

<table>
<thead>
<tr>
<th>Book</th>
<th>Figurative language</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Hello, Harvest Moon</em> by Ralph Fletcher (2017)</td>
<td>“It comes up round, ripe, and huge over autumn fields of corn and wheat. Hello, harvest moon. <em>With silent slippers it climbs the night stairs</em>” (p. 4).</td>
</tr>
<tr>
<td><em>Kitten’s First Full Moon</em> by Kevin Henkes (2004)</td>
<td>“It was Kitten’s first full moon. When she saw it, she thought, ‘There’s a little bowl of milk in the sky’” (p. 1).</td>
</tr>
<tr>
<td><em>The Moon</em> by Robert Louis Stevenson (1885/2006)</td>
<td>“The moon has a face like the clock in the hall” (p. 3).</td>
</tr>
<tr>
<td><em>Owl Moon</em> by Jane Yolen (1987)</td>
<td>“The moon made his face into a silver mask” (p. 10).</td>
</tr>
</tbody>
</table>

*Figurative language is in italics.*
TAKE ACTION!

1. Use sets of topically connected texts that are available for free download at ReadWorks.org. Have students read the texts over a week, identifying the shared vocabulary across the texts on a classroom word wall.

2. Select a topic for a specific period of the school year (e.g., month, quarter) and cluster available texts (e.g., leveled texts, trade books, selections in core reading anthologies, magazine articles) in your classroom around the topic. Encourage students both individually and as a group to identify the critical vocabulary for a topic.

3. Put a typical text from frequently used materials in your classroom on a dry-erase board. Lead a conversation with students about which words are rare and how known words in the text can be useful in comprehending the meaning of unknown words.

REFERENCES


LITERATURE CITED
Readworks. (2013). Water, water, everywhere! Retrieved from https://www.readworks.org/article/Water-Water-Everywhere/1F1Aab187-6b14-4959-b4d0-41fa248201b0#articleTab:content/

MORE TO EXPLORE
For more information on how to develop clusters of vocabulary surrounding topics, morphological awareness, and multiple meanings of words:

Bridge Research to Practice: Live With the Author
Get the inside scoop about Reading Research Quarterly articles from the authors who wrote them. Check out these podcasts and videos to learn about each author’s background; find out what the author would tell teachers, parents, principals, policymakers, and other stakeholders based on the study’s findings; and more!