

Practical Strategies for Building Vocabulary through Reading

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omelette

ketchup

alami

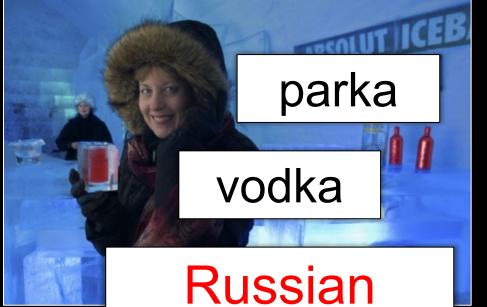








Spanish



Practical Strategies for Building Vocabulary through Reading

1. What are some problems that students face with English vocabulary?

What are some of the challenges with learning English vocabulary?
How many words does a learner need to know?
What does it mean to "know" a word?

2. How can we help?

Encouraging reading and providing texts at the right level
 Select appropriate target vocabulary and provide practice and recycling
 Help students develop practical vocabulary strategies

What are some problems that students face with English vocabulary?

I spent some time shopping for groceries, as I had run out of items like soap and shampoo. Then I picked up a few snacks for the kids – some sweets, a bag of chips and a packet of crisps.

When I returned to the car park, though, I had a shock. I realized I had unintentionally parked my car in a disabled parking space. A parking inspector was noting my vehicle registration and was about to give me a fine!

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"False Friends"

English	is similar to	which means
al fresco	Italian: <i>al fresco</i>	in the cool in jail
soap	Spanish: <i>sopa</i>	soup
apology	French: apologie	justification excuse
embarrassed	Spanish: <i>embarazada</i>	pregnant

How many words does an English language learner need to know?

- In 2010, researchers at Harvard estimated there are a total of around one million words in English.
- According to Oxford English Dictionary, there are 200,000 words in current use. Starting from zero, if you learnt 10 words a day, it would take 54 years to learn all these words.
- Most adult native speakers have a vocabulary of 20,000-35,000 words.
- In daily conversation, most native speakers use only 2,000 words.
 At a rate of 10 words a day, this would only take 200 days to learn.
- Most researchers now recommend aiming for a basic vocabulary of 3,000 word families – up to 5,000 for academic study.

What does it mean to "know" a word?

form: spelling, sound /kənˈkluːd/

meaning(s):

(v) to bring to an end(v) to arrive at a judgment

grammatical forms: conclude -> concluded

word family: conclusion, conclusive, conclusively

collocations: e.g., I ultimately concluded that, ...

register: relatively formal; more common in written than spoken English

frequency: quite common, appears on AWL

synonyms/antonyms: end, deduce (ant: begin)

etymology: Latin origin. "con" = completely, "; "clude" = closed

conclude

Advanced

Basic

How can we help?

- 1. Encourage reading and provide texts at the right level
- 2. Select appropriate target vocabulary and provide practice and recycling
- 3. Help students develop their own practical vocabulary strategies

Vocabulary Acquisition through Reading

Study	Amount of Reading Content	Vocabulary gains
Pitts, White, and Krashen (1989) Experiment 1	6700 words	6.4%
Pitts, White, and Krashen (1989) Experiment 2	6700 words	8.1%
Day, Omura, and Hiramatsu (1991)	1032 words	5.8%
Dupuy and Krashen (1993)	15 pages	25%
Hulstijn (1992)	907 words	17.6%
Horst, Cobb, and Meara (1998)	21,232 words	18%
Zahar, Cobb, and Spada (1999)	2383 words	7.8%

1. Provide texts at the right level

Reading as "Comprehensible Input"

"The best methods [for language acquisition] are ... those that supply **'comprehensible input' in low anxiety** situations, containing **messages that students really want to hear**."

– Stephen Krashen

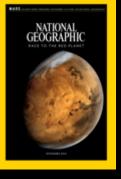
1. Provide texts at the right level How?

Adapt the...

- Sentence length
- Passage length
- Grammar complexity
- Vocabulary
- Topic complexity

... but try not to over simplify





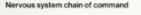
National Geographic Magazine

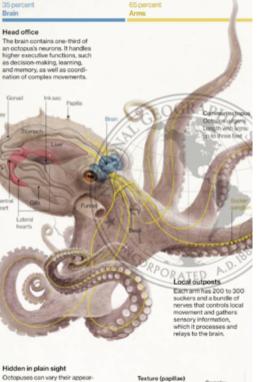
Nov 2016

Armed With Intelligence

In number of neurons, octopuses and their relatives far exceed other invertebrates and put rodents, frogs, and many other vertebrates to shame. An octopus's nervous system processes information not just in the brain but also throughout all eight arms and the suckers that line them.

Pon





ance to match their surroundings nearly instantaneously. The brain signals muscles to raise nipplelike papillae, making smooth skin bumpy and expanding networks of chromatophores, changing the animal's color and texture.

Smooth

FERNANDO G BAPTISTA NOM STAFF SHEDIKA ADRI MESA SONIMACHER SOURCES. ROGERINANLON, MARINE BIOLOGICAL LABORATORY, GUY LEVY AND BENNY HOCHNER HESREW UNIVERSITY OF JERUSALEM, CLIFF RAGSDALE, UNIVERSITY OF CHICAGO the octopus an enormous range of possible movements; also, each arm can be doing something different. An octopus on the hunt can thus be an impressive sight. It can have every arm stretched out over the sand, each one exploring, rummaging, probing into holes. If one arm startles a shrimp, two more can reach out to catch it. Octopuses also have all those suckers that can be moved independently, not to mention the structures and mechanisms for controlling skin color and texture. At the same time, the animal has evolved the capacity to receive and process a huge amount of incoming sensory information: taste and touch from the suckers, gravity sensed by structures called statocysts, as well as all the information that its sophisticated eyes collect.

On top of this, many octopuses live in spatially complicated environmentsthey must navigate on, around, and through reefs. Having no body armor, they need to keep a sharp lookout for predators, and in case camouflage is not enough, they need to know where to hide. Finally, octopuses are fast, agile hunters that catch and eat a wide variety of animals, from oysters to crabs to fish. Boneless bodies, complex environments, diverse diets avoiding predators-all factors, Godfrey-Smith suggests, that can drive the evolution of intelligence.

Yet while octopuses clearly have complex nervous systems, are they, in fact, smart? Evaluating the intelligence of other animals is tricky at the best of times. and sometimes tells us more about ourselves than about the animal in question. Markers of intelligence in birds and mammals, such as the ability to use tools; often don't make much sense for an octopus: Its whole body is a tool. It doesn't need a tool to reach into crevices-it can just reach in-or to pull oysters apart.



To photograph the octopuses for this story, David Liittschwager put them in customfitted aguariums placed in front of white backgrounds. N IT # BASHKIS

That being said, experiments starting in the 1950s and 1960s showed that common octopuses are good at tasks involving learning and memory-two attributes that we associate with intelligence. Indeed, a particular part of the octopus brain, the vertical lobe, is dedicated to such tasks. I'm stressing the common, octopus here because it has been studied the most, by far. Octopus species do/ differ somewhat in the organization of their brains, and as only a few have been studied, no one knows whether all of them are equally gifted. Roy Caldwell, an octopus researcher at the University of California, Berkeley, says: "Some that I've had in the lab seem to be as dull as toast." Name names?" Octopus bocki, a tiny little octopus." What makes it dull? "It just doesn't seem to do much."

But perhaps whether they are smart or dull-whether they are pondering philosophy or lunch, or not thinking anything at all-is less important than the fact that they are just all around astonishing. Enchanting.

Let's go on one final dive. It's dusk in Lembeh. You're kneeling by a rocky slope. In front of you, swimming cheek to cheek, a pair of small fish are spawning. An eel is curled in a hole. A large hermit crab, in its borrowed shell, comes clunking past. And there, sitting on a rock, is a small algae octopus.

As you watch, it starts to move. One moment it seems to float, levitating like an eight-armed yogi. Another moment it appears to glide. Now it starts to crawl over the rocks-but whether it pulls itself with the arms in front or pushes with the arms behind, you cannot say. As it moves down the slope, one arm finds a tiny hole, and, one arm after another, the animal streams into it, Gone, No-not quite. The tip of an arm reaches out of the hole, feels around, grabs some small stones, and pulls them over the entrance. There. All secure for the night.

Original magazine paragraph



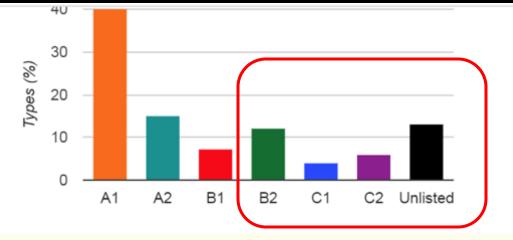
The second element of disguise is skin texture. By contracting special muscles, octopuses can change their skin from smooth to spiky. The effect can be extreme. The algae octopus, Abdopus aculeatus, generates temporary wispy structures that give the impression that the animal is just a piece of seaweed. The hairy octopus, a creature yet to be scientifically described, has evolved a permanently wispy look and is hard to tell apart from a scrap of red algae. The third part of disguise is posture. The way an octopus holds itself can make it more or less conspicuous. Some octopuses, for example, will ball themselves up like a lump of coral and, using just two of their arms, creep slowly across the seafloor.

Original magazine paragraph



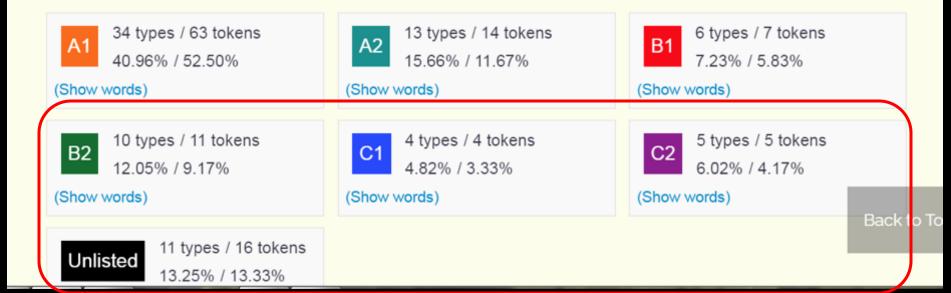
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http://www.englishprofile.org/wordlists/text-inspector



Statistics and details (Toggle all words)

On the main site you can process 10,000 words, and export your data. Go to www.textinspector.com.(Subscription required).



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Reading Explorer Book 1

National Geographic Learning

MASTER •• DISGUISE

- A Octopuses are famous for their round bodies, big eyes, and eight arms. There are many different types of octopuses, but all are alike in one way: They are masters¹ of disguise. Octopuses can change their appearance in less than a second to look like rocks, plants, or even other animals. How do they do this?
- I An octopus can disguise itself in three ways. One is by using color. An octopus's skin has special cells² called drawatophores. These cells are filled with yellow, brown, and red pigment.² When an octopus moves its **muscles** a certain way, the cells become large and **produce** colorfal spots and other **patterns** on its skin. Chromatophores can also reflect light. In blue light, for example, an octopus's skin will look blue. In white light, its skin will look white. With these cells, an octopus can produce many different skin colors and patterns.
- ^C An octopus can also change its skin texture.⁴ When the octopus moves its muscles, its skin can go from smooth to spiky. It might then look like a plant, or coral. Another way an octopus disguises itself is by changing its shape. Some, for example, roll their bodies into balls so they look like rocks. One type of octopus can change its form to look like other sea creatures—especially dangerous ones, such as sea snakes.
- D Why are octopuses so good at disguising themselves? They have to be. The ocean is not a safe place for them. Because they have no bones in their bodies, octopuses are like large pieces of meat. Many predators want to eat them—and they can eat them whole. To survive, octopuses have developed the amazing ability to change their appearance very quickly in order to hide from predators.

- 2 A cell is the smallest living part of an animal or plant. Most animals have billions of cells in their bodies.
- 3 Pigment is a substance that gives something rolor. For example, green pigment makes most plants look green.
- 4 Texture is how something looks and feels (s.g., soft, smooth, spiky).

ALL MUSCLE, NO BONES

An octopus's body has many muscles. This makes it strong and fast. Octopuses also have no bones, so they can change their shape very quickly.

> one-third of the animal's neurons (nerve cells). It handles functions such as decision-making, learning, and memory.

An octopus brain holds only

An octopus has three hearts: one large central heart and two smaller ones on either side.

> About two-thirds of an octopus's neurons are in its arms. These neurons control the arm movements.

Octopuses can change their appearance to match their surroundings. Once the brain gives a signal, the octopus's muscles move in a certain way, changing its skin from smooth to spiky and producing colorful spots or stripes on its skin.



2000

¹ A master is very good at doing something.

MASTER ^{of} DISGUISE

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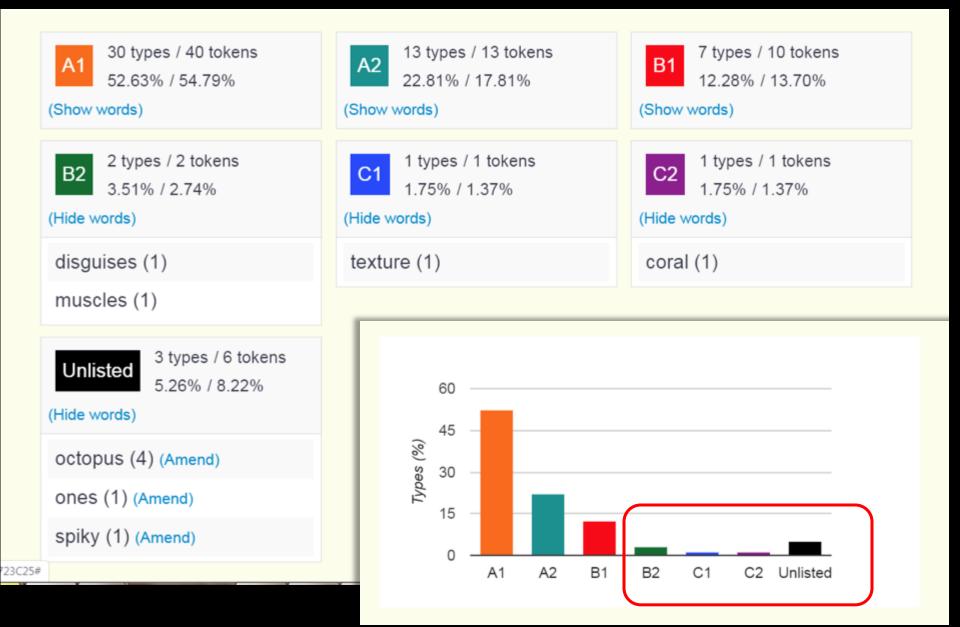


Adapted paragraph



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http://www.englishprofile.org/wordlists/text-inspector



How can we help students deal with subject-specific and lower frequency words?

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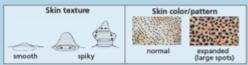
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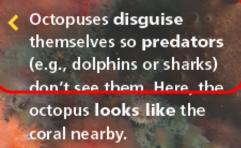
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BEFORE YOU READ

- DEFINITIONS A. Read the caption below. Then circle the correct words to complete these definitions.
 - If you disguise yourself, you change how you look so others know / don't know who you are.

an is an animal that asts other animals I plants



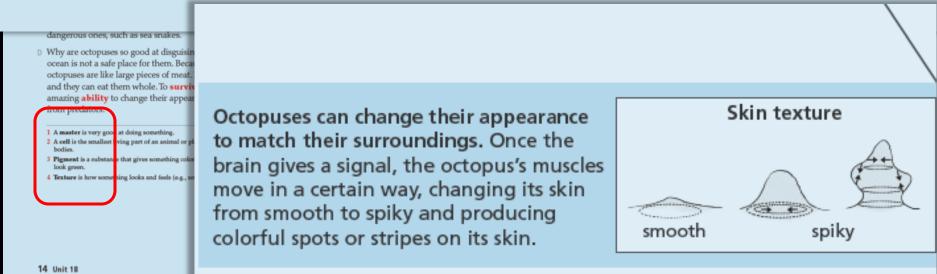
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atten

MASTER

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How can we help?

2. Select appropriate target vocabulary and provide practice and recycling

Use a corpus or text analyzer to select target vocabulary

1. Vocabulary Profilers

http://www.englishprofile.org/wordlists/text-inspector

2. Academic Word Lists https://www.lextutor.ca/

3. English Corpora

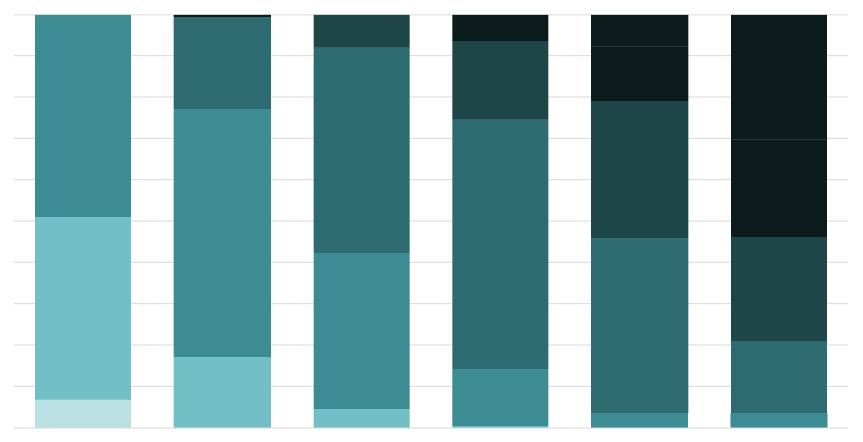
https://www.english-corpora.org/coca/

Selecting Target Vocab (B1 level)

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REx 3e Target Vocabulary



FndsLevel 1Level 2Level 3Level 4Level 5■ A1■ A2■ B1■ B2■ C1■ C2

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<u>Type List</u>

type_[number of tokens] [1]

1k types: [families 99 : types 116 : tokens 234] a [4] ability [1] all [1] also [2] an [7] and [6] animals [1] another [1] appearance [2] are [7] arms [1] as [1] at [1] balls [1] be [1] because [1] become [1] big [1] blue [2] bodies [3] but [1] by [2] called [1] can [8] certain [1] change [4] changing [1] color [1] colorful [1] colors [1] dangerous [1] developed [1] different [2] do [2] eat [2] eight [1] even [1] example [2] eyes [1] famous [1] filled [1] for [4] form [1] from [2] go [1] good [1] has [1] have [3] how [1] in [7] into [1] is [3] it [1] its [8] itself [2] large [2] less [1] light [3] like [5] look [6] many [3] might [1] moves [2] no [1] not [1] number [2] of [4] on [1] one [3] ones [1] or [2] order [1] other [3] pieces [1] place [1] plant [1] plants [1] produce [2] red [1] rocks [2] rol [1] round [1] safe [1] sea [2] second [1] shape [1] so [2] some [1] special [1] spots [1] such [1] than [1] the [4] their [5] them [3] themselves [1] then [1] there [1] these [2] they [6] this [1] three [1] to [8] type [1] types [1] using [1] very [1] want [1] way [3] ways [1] when [2] white [2] whole [1] why [1] will [2] with [2]

2k types: [15:15:22] alike_[1] bones_[1] brown_[1] creatures_[1] especially_[1] hide_[1] meat_[1] ocean_[1] patterns_[2] quickly_[1] reflect_[1] skin_[7] smooth_[1] snakes_[1] yellow_[1]

AWL types: [1:1:1] survive_[1]

Demos: isogram | Lit (1) (2) | Science (1) (2) | News (1) (2) | Speech (1) (2) | Rex M. | List AWL Select Count No returns SUBMIT_Window

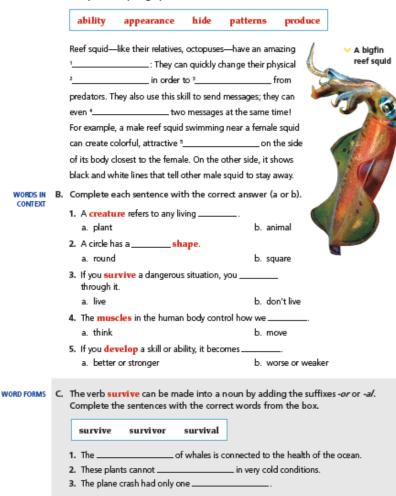
Original VP by Heatley & Nation, VUW New Zealand & B. Laufer, U Haifa, Israel; AWL by A. Coxhead VUW; WebVP adapted by T. Cobb, UQAM Canada. How to

D Why are octopuses so good at disguising themselves? They have to be. The ocean is not a safe place for them. Because they have no bones in their bodies, octopuses are like large pieces of meat. Many predators want to eat them—and they can eat them whole. To **survive**, octopuses have **developed** the amazing **ability** to change their appearance very quickly in order to **hide** from predators.

Provide practice of target vocabulary

VOCABULARY PRACTICE

COMPLETION A. Complete the paragraph with words from the box.



- Completion Tasks

- Definition Tasks

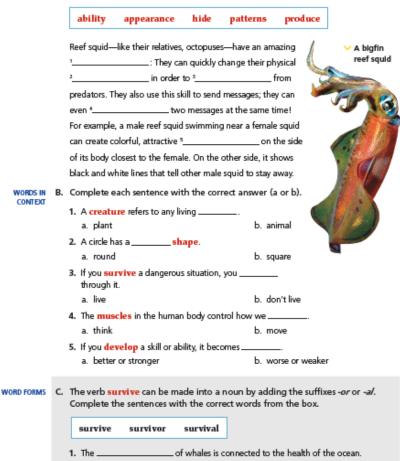
 Words in Context Tasks

- Extension Tasks

Provide practice of target vocabulary

VOCABULARY PRACTICE

COMPLETION A. Complete the paragraph with words from the box.



- 2. These plants cannot ______ in very cold conditions.
- The plane crash had only one _____

Suggested steps:

(Students don't check target vocab in a dictionary while reading.)

- Students look back at the main reading passage, look at the word in context, identify its part of speech, and try to guess the meaning.
- 2. Students complete the activities.
- 3. Dictionaries only used when checking answers.

Completion tasks

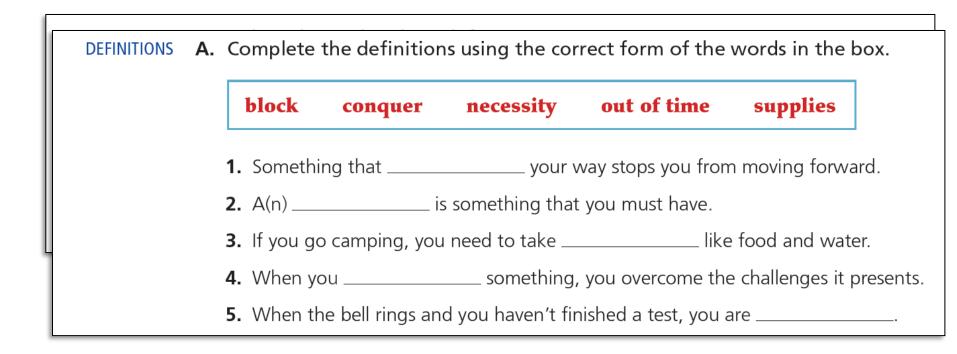
A. Complete the information using the words in the box. One item is extra. COMPLETION

continue credit displayed extraordinary major noticed talent

∧ Quetzalcoatlus northropi was a giant pterosaur.

The 1 creature pictured				
here, Quetzalcoatlus, was one of the largest				
flying animals of all time. An American				
graduate student, Douglas A. Lawson, is given				
² for its discovery in 1971.				
One day, Lawson ³ a large				
wing bone on the ground during a visit to Big				
Bend National Park in Texas. Since then, only a				
few remains have been found, but scientists				
4 to look for more. This				
life-size model will be 5 in				
Sheikh Jaber Al Ahmad Cultural Center,				
a 6 new museum project				
in Kuwait.				

Definition tasks



Words in context tasks

- WORDS IN Complete each sentence with the correct answer (a or b).
 - 1. We measure **distance** in ______.
 - a. kilometers (km)
 - b. kilograms (kg)
 - 2. Some examples of **tools** are ______.
 - a. monkeys and dolphins
 - b. cell phones and laptops
 - 3. If you **contact** someone, you ______ them.
 - a. meet or communicate with
 - b. research and write about
 - If you have lived in a place your whole life, you have lived there _____ of your life.
 - a. some
 - b. all
 - If a spaceship circles a planet, it ______ the planet.
 - a. goes around
 - b. lands on



 The SpaceX Falcon Heavy rocket lifted off on February 6, 2018.

What does it mean to "know" a word?

form: spelling, sound /kənˈkluːd/

meaning(s):

(v) to bring to an end(v) to arrive at a judgment

grammatical forms: conclude -> concluded

word family: conclusion, conclusive, conclusively

collocations: e.g., I ultimately concluded that, ...

register: relatively formal; more common in written than spoken English

frequency: quite common, appears on AWL

synonyms/antonyms: end, deduce (ant: begin)

etymology: Latin origin. "con" = completely, "; "clude" = closed

conclude

Advanced

Basic

Extension Tasks

1. Collocations

collocation (n): a word or phrase that is often used with another word or phrase, in a way that sounds correct to people who have spoken the language all their lives (Cambridge Online Dictionary)

Use a corpus or text analyzer to select target vocabulary

1. Vocabulary Profilers

http://www.englishprofile.org/wordlists/text-inspector

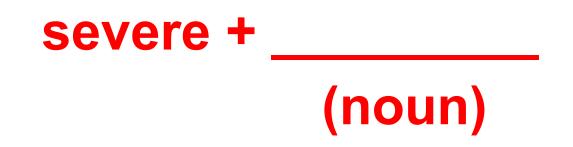
2. Academic Word Lists https://www.lextutor.ca/

3. English Corpora

https://www.english-corpora.org/coca/

Collocations

severe (adj): very bad or very serious

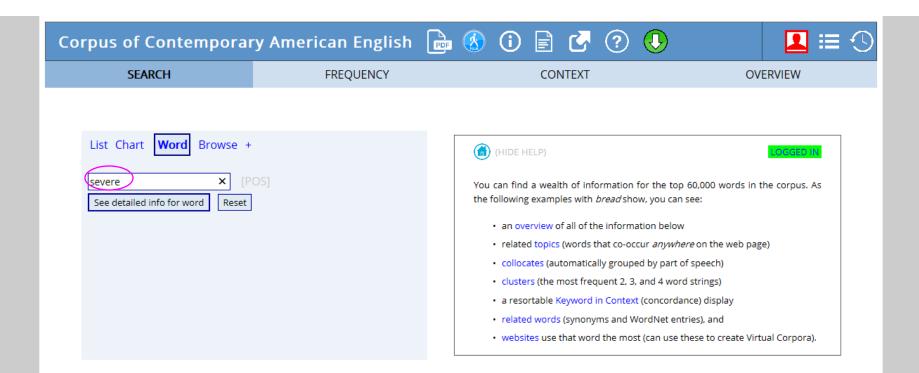


What are the most common nouns that collocate with the adjective *severe*?

How to identify common collocations?

Use a corpus. For example, the Corpus of Contemporary American English (COCA) https://www.english-corpora.org/coca

pus of Contemporary A	merican English [🗟 🚯 🛈 🖹 🛃 🕐 🕔	
SEARCH	FREQUENCY	CONTEXT	OVERVIEW
List Chart Word Browse +		(HIDE HELP)	LOGGED IN
[POS]		Take a short tour, including new features in M	arch 2020
Find matching strings Reset		O Download the corpus for offline use	
		and even translations. A few examples (click results page): soft NOUN, ADJ eye, NOUN str hand*, collocates of fruit, basket, leather. The Corpus of Contemporary American English balanced corpus of American English. COCA is corpus of English, and it is related to many o have created, which offer unparalleled insight in	(COCA) is the only large, genre- probably the most widely-used ther corpora of English that we
		The corpus contains more than one billion wor year 1990-2019) from eight genres: spoke newspapers, academic texts, and (with the u Movies subtitles, blogs, and other web pages.	ds of text (20 million words each n, fiction, popular magazines,
		Click on any of the links in the search form to the and to see the range of queries that the corpus	
		There are three main ways to search the corpu	IS:
		First, you can browse a frequency list of the t including searches by word form, part of speech and even by pronunciation. This should be	h, ranges in the 60,000 word list,



Corpus of Contemporary American English 📴 🚯 🛈 📄 🕜 🕐 1 WORD SEARCH CONTEXT **OVERVIEW** See in iWeb 🍙 Collocates Clusters Topics Dictionary Texts KWIC 🔮 HELP severe (ADJ) 🕥 🕠 TOPICS (more) symptom, patient, clinical, acute, disease, complication, treatment, infection, mild, disorder, diagnosis, chronic, severely, severity, eg, persistent, therapy, duration, medication, intensive BLOG WEB TV/M SPOK FIC MAG NEWS ACAD **COLLOCATES** (more) problem, weather, pain, case, injury, disability, damage, illness 1. causing fear or anxiety by threatening great harm 2. very NOUN bad in degree or extent 3. unsparing and uncompromising in VERB suffer, cause, experience, face, develop, result, associate, impose discipline or judgment DMOCG ADJ moderate, mental, economic, mild, physical, respiratory, acute, chronic 🔼 🚳 PlayPhrase YouGlish Yarn more, most, less, under, potentially, increasingly, eg, moderately ADV Translate: choose language SYNONYMS (more)

acute awful, critical, dangerous, grave, serious, severe, terrible harsh cruel, difficult, harsh, relentless, rigorous, ruthless, severe, stern, strict plain plain, severe, simple, Spartan, stark, unadorned, undecorated, unembellished

CLUSTERS (more)

severe .	severe weather • severe disabilities • severe pain • severe mental • severe depression • severe cases • severe economic • severe storms
• severe	with severe • more severe • to severe • most severe • so severe • in severe • less severe • very severe
severe	severe mental illness • severe damage to • severe acute respiratory • severe brain damage • severe blow to • severe restrictions on • severe side effects •
	severe that it

Collocations

COLLOCATES (more)

NOUN	problem, weather, pain, case, injury, disability, damage, illness
VERB	suffer, cause, experience, face, develop, result, associate, impose
ADJ	moderate, mental, economic, mild, physical, respiratory, acute, chronic
ADV	more, most, less, under, potentially, increasingly, eg, moderately

Collocations

COLLOCATIONS		ns in the box are often used with the word severe . Complete the es using the correct form of the words in the box.		
COLLOCATIONS C. The nouns in the box are often used with the word distinctive . Complete the sentences with the correct words. One word is extra.				
Ц	COLLOCATIONS	 C. The nouns in the box are often used with the word negative. Complete the sentences with the correct form of the words in the box. effect meaning response thought 		
		 The word <i>skinny</i> has a more negative than the word <i>slim</i>. There was a largely negative to the government's plans to increase income tax. Playing video games late at night can have a negative on your sleep. Sports psychologists believe that negative can affect an athlete's performance. 		

Extension Tasks

1. Collocations

collocation (n): a word or phrase that is often used with another word or phrase, in a way that sounds correct to people who have spoken the language all their lives (Cambridge Online Dictionary)

2. Word Families

adjective	verb	noun	adverb
severe	-	severity	severely

WORD FORMS

C. Many nouns, such as **combination**, are formed from verbs by adding the suffix *-tion*.

1. Complete the chart below. Use a dictionary to help.

Verb		Noun
	\rightarrow	combination
create	\rightarrow	
evolve	\rightarrow	

2. Complete these sentences using the correct form of the words above.

a. To communicate, bees use a(n) ______ of body movements and chemical signals.

b. The development of language has played an important role in human

- c. Like bees, ants can ______ chemicals called "pheromones."
- d. As a language ______, the meaning of certain words can change.

Extension Tasks

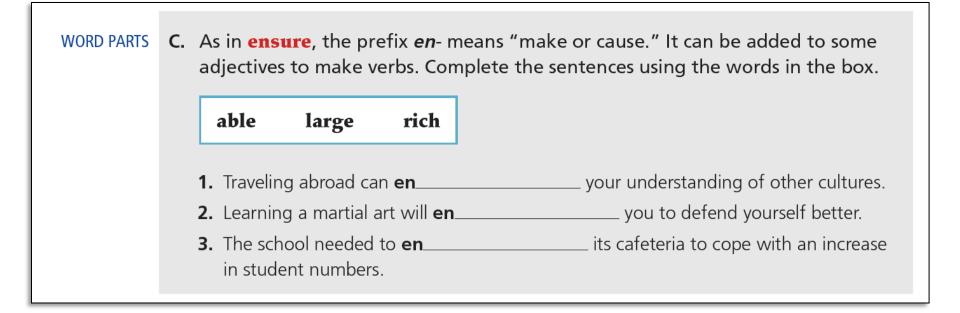
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adjective	verb	noun	adverb
severe	-	severity	severely

- 3. Word Parts
- e.g., ensure -> en sure



Extension Tasks

1. Collocations

collocation (n): a word or phrase that is often used with another word or phrase, in a way that sounds correct to people who have spoken the language all their lives (Cambridge Online Dictionary)

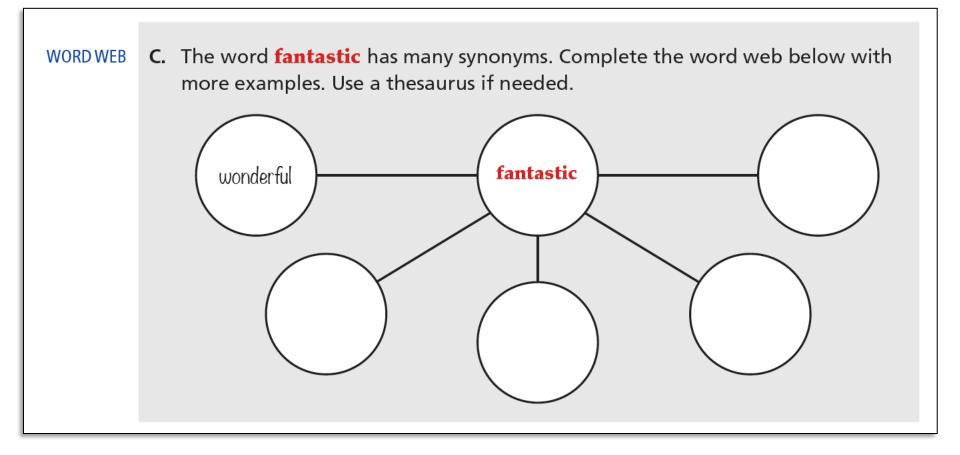
2. Word Families

adjective	verb	noun	adverb
severe	-	severity	severely

- 3. Word Parts
- e.g., ensure -> en sure

4. Synonyms

Other words with similar meanings



Recycling and Repetition

- Repetition / recycling: Studies suggest a learner needs to encounter a word at least seven times
- Distributed practice is important: e.g., testing / recycling vocab over a sequence of lessons at spaced intervals



58 Unit 5/

BEFORE YOU READ

DEDUTIONS A Boad the exceedable below. Match each word in held with its

THE SECRETS SAND

A In 1823, a young woman noticed a strange

uncovered in 1823 was another long-dead sea

 Fossil hunting brought in money, but it was a dangerous occupation. One day, a rock fall killed her dog and almost buried Mary.
 Despite the dangers, she **continued** to look for new finds. The long-necked fossil she

> The cliffs and beach of Luiworth Cove form part of England's Jurassic Coast.

Mary Anning with her dog, Tray. Her life inspired the famous tongue twister: "She sells sea shells on the seashore."





BEFORE YOU READ

DEFINITIONS A. Read the paragraph below. Match each word in **bold** with its definition.

> The "Jurassic Coa through time. Ov and a thick forest the **beach**. The co extinct animalsare now kept in n show a complete

1.	
2.	
3.	
4	
5	
^	

think Mary Anni check your ideas

B. Read the first set SKIMMING / PREDICTING



Mary Anning died in 1847, but her contributions have not been forgotten. Her finds are now **displayed** in museums in London and Paris. The beach near her home is a UNESCO World Heritage Site, known as the Jurassic Coast. Her life continues to inspire visitors hoping to find their own fossil wonders. According to Britain's Natural History Museum, Mary Anning was "the greatest fossil hunter the world has ever known. She was also a scientist who changed the way we think about life on Earth.

A In 1823, a young woman noticed a strange

fossil on a beach near Lyme Regis, England.

THE SECRETS SAND

uncovered in 1823 was another long-dead sea

reptile.2 Known as a plesiosaur, it would inspire

I a second a standard in a data of the Tarah Ma

RESIDENTS OF THE REEF

Coral reefs occupy less than 1 percent of the surface area of the world's oceans, but they provide a home for 25 percent of all marine fish species. Here are some examples of the creatures that call a coral reef home.



 A nudibranch uses its bright colors to tell predators to stay away



 A longsnout seahorse "stands" between coral branches.

i 🚮 i

Threats to Coral Reefs

- D Various human activities can cause great harm to the world's coral reefs. For example, reefs can be damaged when the coral is taken for use in building materials, jewelry-making, or to fill aquariums.²
- E Illegal fishing methods like blast and cyanide fishing also harm the reefs. These methods can help fishermen get a good catch, but their **negative** effects on the reefs are significant. Blast fishing involves setting off bombs in the water to kill as many fish as possible. This kills most living things nearby and causes damage to the reef's structure.
- F In cyanide fishing, fishermen release liquid cyanide—a very dangerous and deadly chemical—into the reef. As a result, the fish become stunned,³ which makes them easy to collect. Meanwhile, the reef is damaged by the cyanide, which kills large numbers of coral polyps. The reef is also damaged by the fishermen who break it apart looking for the stunned fish.

4 A flood is a large amount of water covering an area of land that is usually

dry

H In addition, global warming has caused many reefs to become sick. Warmer temperatures have turned them white, in a process known as coral bleaching. A 2018 UN Report predicted that up to 99 percent of the world's coral reefs may decline if global warming continues.

AN INCREDIBLE JOURNEY

The Polos-Marco, his father, Niccolò, and his uncle, Maffeo-had been traveling for three and a half years when they finally achieved their objective-a long-awaited meeting with the powerful Mongol leader

D We learn from Marco Polo that, in the administration of his empire, Kublai Khan made use of a fast and simple message system. Horse riders spaced every 40 kilometers allowed messages to cover 500 kilometers a day. As soon as one horse had run 40 kilometers, the next horse would run the next 40 kilometers, and so on. Marco also learned the secret of asbestos cloth, which is made from a mineral⁴ and doesn't catch fire. Paper money also took him by surprise, since it was not yet used in the West at that time. Homes were heated with "black stones ... which burn like logs." Those stones were coal-unknown in most of Europe-and were so plentiful that many people had a hot bath three times a week.

E Although the Khan did not want his visitors to leave, the Polos finally received permission to return home in 1292. Marco continued his

E Although the Khan did not want his visitors to leave, the Polos finally received **permission** to return home in 1292. Marco continued his observations while on the ocean voyage by way of Sumatra and India. After he returned home, Marco completed a book about his trip, full of details about his amazing cultural experiences. It was probably the single greatest contribution to geographical knowledge ever made to the West about the East.

broad streets of China's modern capital.

1 The capital of a country is the city where its government meets.

2 A mission is an important task, especially one that involves traveling.

3 Something that is an honor is special and desirable.

A statue of Marco Polo in Zhenglan Banner, China, close to where Polo is thought to have met Mongol leader Kublai Khan

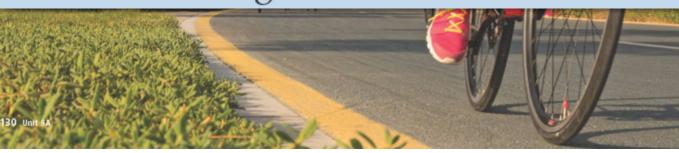




Cyclists in Dubai race along the road. Research suggests that teenagers like to seek out new, sometimes wild, activities, due to natural impulses in the brain during adolescence.



to be finished by about age 12. Now, scientists have **concluded** that our brains continue to change until age 25. Such changes make us better at balancing our impulses with the need to follow rules. However, a still-developing brain does this clumsily.² The result, scientists claim, is the unpredictable behavior seen in teenagers.



THE TEENAGE

Foolishness refers to the behavior of someone who makes bad decisions.

² If something is done classily, it is done in an awkward or uncontrolled way.



BEFORE YOU READ

- INTERPRETING A. Look at the map on page 146 and read the caption. Use the INFOGRAPHICS information to complete the sentences below
 - Review this reading skill in Unit SA
- information to complete the sentences below. 1. The map shows the change in global temperatures from
- Since the late nineteenth century, average temperatures on Earth have risen by ______
- While some areas off the coast of ______ have actually cooled, parts of the Arctic have seen temperatures rise as much as ______.
- SCANNING B. Scan the reading and circle all the place names. Find each place on the map on page 146. Which places have seen the greatest rise in temperature?

to



THE BIG THAW

A The Chacaltaya ski area sits upon a small mountain glacier in Bolivia. Although the area is less than a kilometer long, it once **hosted** international ski competitions. In the past ten years, however, the snow has melted very quickly. As the Chacaltaya glacier melts, dark rocks are uncovered. These rocks **absorb** more heat, causing temperatures to increase, so the remaining snow melts faster. The cycle seems unstoppable. Today, the snow is almost gone, and so are Chacaltaya's days as a popular ski resort.

A Global Problem

^B In recent years, scientists all around the world have come to a terrifying conclusion. Global warming is a real problem, and one largely caused by human activity. But as experts debate how to solve the problem, ice near the North and South Poles is melting even faster than environmentalists once feared. Ten years ago, scientists warned that the Arctic Ocean could lose all its ice in about a hundred years. Now, they think it could happen much sooner. As climate scientist Mark Serreze says, "Reality is exceeding expectations."

Glacier Run

C The ice sheet of Greenland is also melting more quickly than scientists predicted. One of its largest glaciers, Jakobshavn

D Some researchers believe that the melting of Greenland's ice, if it continues, could add at least a meter to global sea levels by 2100. If the ice sheet of Antarctica continues to melt at its current rate, the next few centuries could see at least

A Psychologist Dan Ariely became interested in dishonesty about 15 years ago. During a long-distance flight, he came across an IQ test in a magazine. He answered the first question and checked the answer key to see if he got it right. He then took a quick look at the next answer before looking back at the quiz. He continued in this way through the whole test. Not surprisingly, he scored very well. "When I finished, I



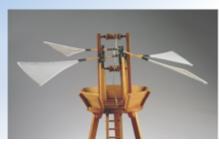
BEFORE YOU READ

THE DREAMFLIGHT

DISCUSSION A. What are some different ways that humans can experience flying? Work with a partner and make a list. Which of these activities have

- A For thousands of years, humans have dreamed of taking to the skies. The ancient Greeks told the legend of Icarus, a boy who flies so high that the sun melts his manmade **wings** and he crashes down to Earth. Across history, many more people have died after jumping from a tower or **cliff** with wings that didn't quite work. Flying, for humans, seemed an impossibility.
- B Yet many continued to dream of flying. Dne such dreamer was the great 15thcentury artist and inventor Leonardo da Vinci. He studied the flight of birds and even designed his own flying machines, but they—and he—never left the ground.





A model of a flying machine designed by Leonardo da Vind

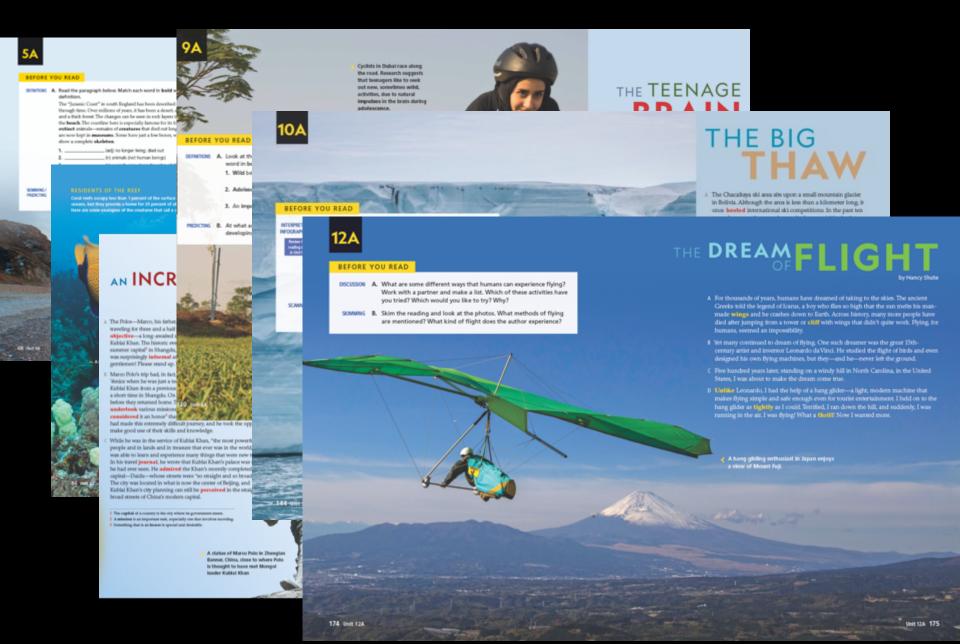
G Switzerland's Yves Rossy might disagree. The wings he has invented for personal flight have four small **engines**. He **steers** them just by moving his shoulders. For 10 minutes at a time, Rossy seems to fly as free as a bird, having both power and control. One of his longest flights was across the water from France to England. "It's awesome, it's great, it's **fantastic**!" says Rossy. Since then, he has continued to improve his wing design, and hopes he can "**motivate** the next generation of thinkers to do something different . . . even if it seems impossible."

 Yves Rossy's two-meter-long wings allow him to fly at speeds of around 200 kilometers an hour. his shoulders. For 10 minutes at a time, Rossy seems to fly as free as a bird, having both power and control. One of his longest flights was across the water from France to England. "It's awesome, it's great, it's **fantastic!**" says Rossy. Since then, he has continued to improve his wing design, and hopes he can "**motivate** the next generation of thinkers to do something different . . . even if it seems impossible."

¹ A pigeon is a common bird that usually lives in towns and cities.

² An eagle is a large bird known for its strength, vision, and power of flight.

Provide multiple exposure to key words



Additional Vocabulary Practice

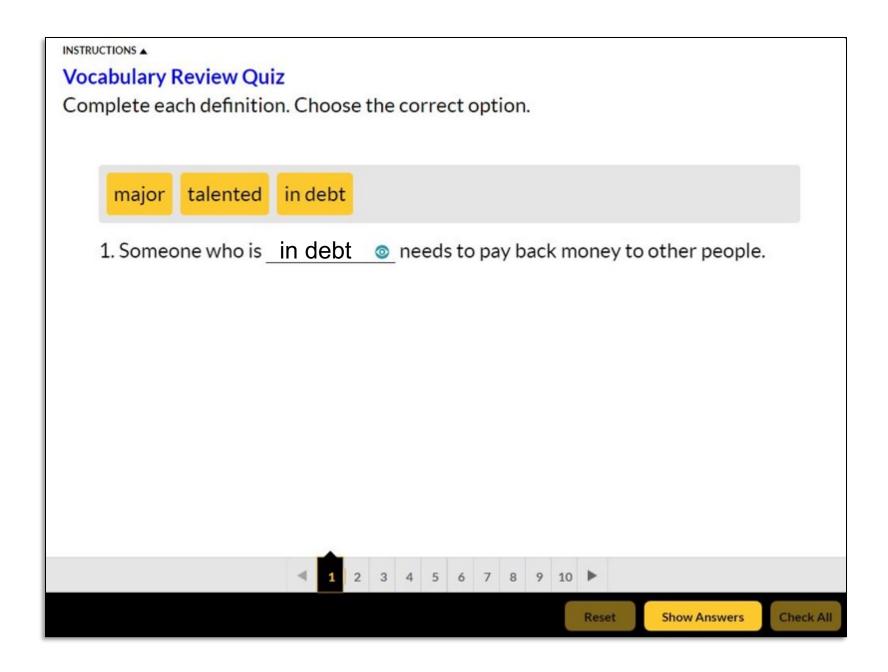
Classroom Presentation Tool: Vocabulary Quiz

WHILE YOU WATCH e GIST A. Watch the video. Check your predictions in Before You Watch B. E MULTIPLE B. Watch the video again. Choose the correct answer for each question. CHOICE 1. What would be a suitable alternative title for the video? a. How to Become a Fossil Hunter b. The Dream Job of a Dinosaur Lover 2. Why did people think Roberts was unusual as a child? a. because she had a great passion for dinosaurs b. because she loved going on outdoor adventures 3. According to Roberts, what part of the job "makes your heart leap"? a. discovering something under a rock b. seeing the amazing scenery for the first time 4. What does Roberts say she loves about paleontology? Any new discovery involves a lot of teamwork. b. New discoveries are being made all the time. CRITICAL THINKING Ranking Items Imagine you are a member of a fossil-hunting expedition heading to Svalbard. Which of the following items do you think will be most useful to take with you? Check () the five most useful items. Share the reasons for your choices with a partner. a fishing kit a gun a jackhammer a small radio a map of Svalbard a magnifying glass a medical kit a smart phone a 5 x 5 meter plastic sheet VOCABULARY REVIEW Do you remember the meanings of these words? Check (/) the ones you know. Look back at the unit and review any words you're not sure of. Reading A continue contribution* credit* debt arrange talent display* extraordinary major* notice **Reading B** access* collection entire eventually* individual* soften productive remote remove* preparation * Academic Word List

82 Video

Classroom Presentation Tool: Vocabulary Quiz

Do you remember th unit and review any	he meanings of the		') the ones you kn	ow. Look back at the
Reading A				
arrange	continue	contribution*	Credit*	🗌 debt
☐ display*	extraordinary	🗌 major*	notice	talent
Reading B				
access*	collection	entire	eventually*	individual*
preparation	productive	remote	remove*	soften
* Academic Word List				



Online Practice

Unit 5 🧹	
	Reading A V
ģ	Vocabulary 1
Q	Vocabulary 2
Ó	Reading Comprehension
Ó	Reading Skill
	Reading B 🗸
¢	Vocabulary 1
Ó	Vocabulary 2
Ó	Reading Comprehension
0	Reading Skill
	Video V
¢	Summary
Ó	Details
	Extension V
0	Reading Extension

Online Practice

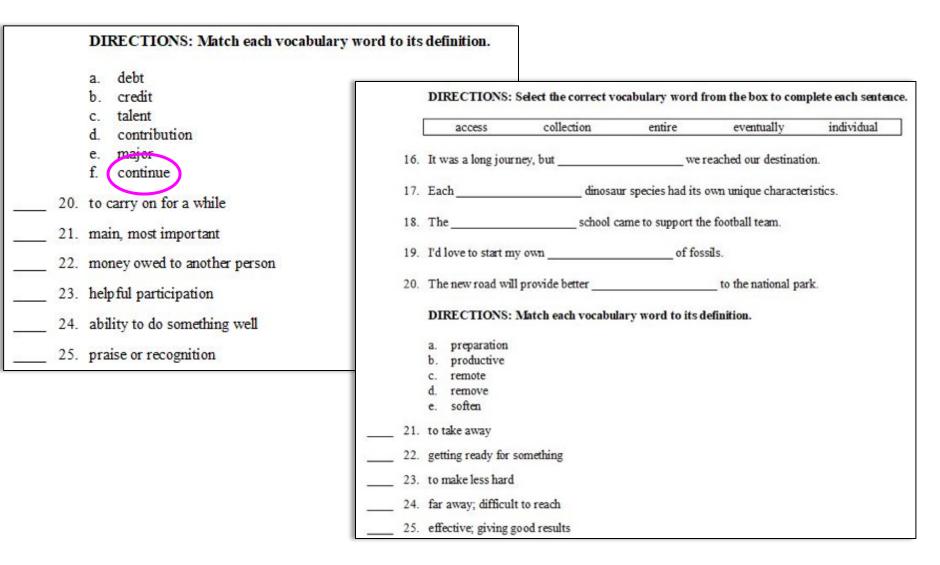
INSTRUCTIONS **A**

Complete the passage using the words in the box.

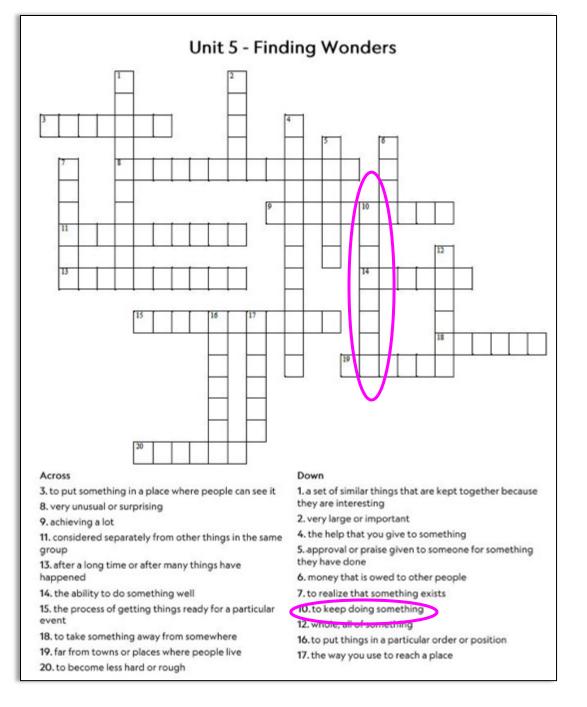
\sim		
major contributin continuing	noticed arranged	
A farmer in Argentina has made a(n)	discovery. While working in his field, he	some fossilized dinosaur remains in the ground. About 180 bones were found. Once the bones
were separated and		e newly named Titanosaur may be largest dinosaur to ever walk the Earth.

Its remains have been compared to Argentinosaurus, which was until recently viewed as the largest dinosaur. However, Titanosaur is believed to weigh about 7,000 kilograms more than Argentinosaurus. José Luis Carballido, who is leading the dig, has said that his team is to work on "this extraordinary site," so there will be much more to discover.

ExamView



Companion Website: Vocabulary Crosswords



Unit 2 NATURAL ATTRACTION - VOCABULARY GAME

Companion Website: Communicative Activities

descend	astonishing	predator
Don't say:	Don't say:	Don't say:
down	surprising	kill
go	shocking	hunt
up	amazing	eat
move	feel	animal
transparent	invisible	absurd
Don't say:	Don't say:	Don't say:
light	see	strange
see	view	weird
clear	light	unique
window	disappear	odd
bounce	commence	evolution
Don't say:	Don't say:	Don't say:
ball	start	change
	begin	time
reflect	begin	une
reflect hit	end	adapt
	÷	
hit	end	adapt
hit return flash	end finish disturb	adapt Darwin layer
hit return flash Don't say:	end finish disturb Don't say:	adapt Darwin
hit return flash	end finish disturb	adapt Darwin layer .Don't say:
hit return flash Don't say: light	end finish disturb Don't say: quiet	adapt Darwin layer Don't say: top

Repetition at spaced intervals

Encounter 1: In class. Student's Book reading passage				
	30 mins			
Encounter 2: In class. Studen	t's Book vocabulary activity			
	3 hours			
Encounter 3: Homework. OLF	P vocabulary activity			
	3 days			
Encounter 4: In class. CPT er	nd of unit quiz			
	1 week			
Encounter 5: Homework. Voc	abulary crossword.			
	2 weeks			
Encounter 6: Self study.				
	1 month			
Encounter 7: Class Test. Exa	mView.			

Natural recycling. Numerous encounters in subsequent reading and daily conversation. Helping Students Develop Vocabulary Strategies

1. Read something interesting and at the right level.

1. Read something interesting and at the right level.

2. If possible, don't stop reading when you find an unknown word. Guess the meaning and move on. Use the context and/or your knowledge of word parts.

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2. If possible, don't stop reading when you find an unknown word. Guess the meaning and move on. Use the context and/or your knowledge of word parts.

3. Annotate the text as you read. Underline unknown vocab and put a question mark in the margin.

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4. Return at the end of the passage/chapter to check any unknown words using a dictionary.

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3. Annotate the text as you read. Underline unknown vocab and put a question mark in the margin.

4. Return at the end of the passage/chapter to check any unknown words using a dictionary.

5. If necessary, use a corpus to check how common each word is.

Corpus of Contemporary American English 🕞 🚯 🛈 📄 🛃 🕐 😲 🕕

BROWSE/RANDOM WORD CONTEXT OVERVIEW

2

HELP Find random words Click on any of the search types below for more information and examples. (more...) Word form Conclude Part of speech NOUN VERB ADJ ADV OTHER ALL Range Pronunciation Rhymes with Type EXACT Syllables / stress

	RANK	FREQ	Word	PoS	Audio	Video	Image	LANG?
1	1972	45116	conclude	VERB	٩	Þ	1	Ø
MORE								

Corpus of Contemporary American English	PDF		(i)	F	G	?)
---	-----	--	------------	---	---	---	--	---

BROWSE/RANDOM WORD	CONTEXT	OVERVIEW
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HELP		Find random words				
Click on any of the search types	Click on any of the search types below for more information and examples. (more)					
Word form	dereliction					
Part of speech	NOUN VERB ADJ ADV OTHER ALL					
Range						
Pronunciation	Rhymes with Type EXACT					
Syllables / stress	00000000 ×					
Show all words Reset						

		RANK	FREQ	Word	PoS	Audio	Video	Image	LANG?
	1	27569	464	dereliction	NOUN	٩	Þ	4	B
I	MORE								

Corpus of Contemporary American English **(i)** Ð E (?) K1 **BROWSE/RANDOM** WORD CONTEXT OVERVIEW See in iWeb 🛞 Collocates Clusters Topics Dictionary Texts KWIC HELP conclude (VERB) 👩 🎣 #2047 TOPICS (more)

BLOG WEB TV/M SPOK FIC MAG NEWS ACAD COM CATES (more) 1. decide by reasoning 2, bring to a close 2, case a conclusion after a discussion or deliberation D M O C G * PlayPhrase YouGlish Yarn VERB Translate: choose language ADJ ADV SYNONYMS (more) bring about achieve, arrange, clinch, close, complete, conclude,

summarize, finding, conclusion, substantially, assertion, statistically, methodology, researcher, subsequently, empirical, investigator, correlate, eg, selected, study, investigation, systematic, beneficial, explicitly, favorable

- NOUN study, report, court, author, researcher, investigation, agreement, analysis
- lead, tempt, premeditated, levy, randomize, must-carry
- reasonable, logical, tempting, insufficient, premature, bilateral, two-day, unreasonable
- therefore, thus, ultimately, reasonably, successfully, correctly, reluctantly, tentatively

determine, resolve, settle deduce conclude, construe, decide, deduce, infer, presume, reckon, suppose end conclude, end, finish, halt, terminate

CLUSTERS (

conclude •	concludes with • concluded with • concluded in • conclude with • concluded by • conclude from • conclude by • concluded it
 conclude 	he concluded • have concluded • we conclude • he concludes • they concluded • has concluded • i concluded • had concluded
conclude 🛛	concluded that it • concluded that there • conclude that it • conclude that there • concluded that they • concluded that he • conclude that they • conclude that he
•• conclude	we can conclude . it was concluded . can be concluded . can only conclude . have to conclude . i have concluded . reasonable to conclude . us to conclude
conclude • • •	concludes with a discussion • concluded that it would • conclude with a discussion • concluded that the most • concluded that the evidence • concluded that the only • concluded that the best • concluded that he had
	it can be concluded • i can only conclude • would have to conclude • leads me to conclude • one can only conclude • i have to conclude • seems reasonable to conclude • we can not conclude

1. Read something interesting and at the right level.

2. If possible, don't stop reading when you find an unknown word. Guess the meaning and move on. Use the context and/or your knowledge of word parts.

3. Annotate the text as you read. Underline unknown vocab and put a question mark in the margin.

4. Return at the end of the passage/chapter to check any unknown words using a dictionary.

5. If necessary, use a corpus to check how common each word is.

6. Record the most common/useful words in a vocabulary diary.

eading Explorer	r, Third Edition				Vocabulary Diary
Word	Definition / Translation	Example Sentence	Synonyms	Collocations	Visual
remote (adj.)	for from other people 외딴	She lived in a remote village high in the mountains,	distant inaccessible out-of-the-way	area location village region	
		1		1	

1. Read something interesting and at the right level.

2. If possible, don't stop reading when you find an unknown word. Guess the meaning and move on. Use the context and/or your knowledge of word parts.

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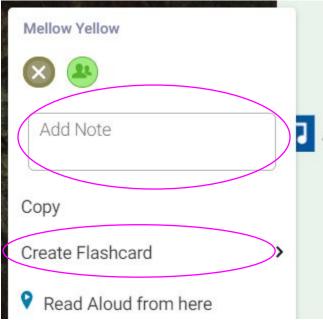
5. If necessary, use a corpus to check how common each word is.

6. Record the most common/useful words in a vocab diary.

7. Review the diary and test yourself at regular intervals. Use memorization techniques.

Vocabulary study using eBooks

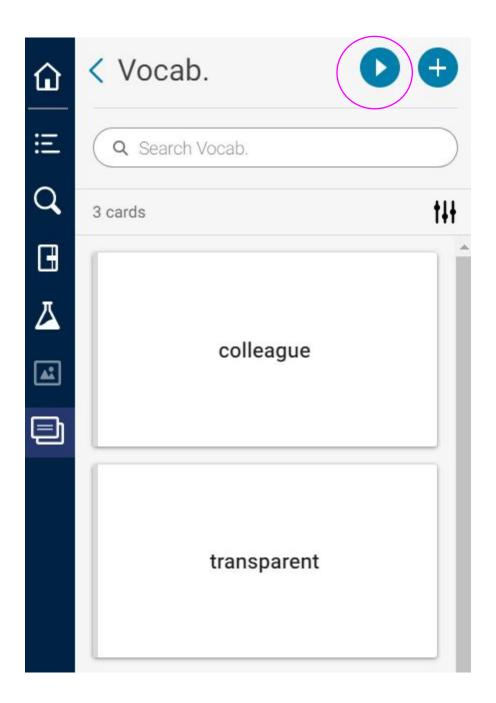
- Highlight new vocabulary and make notes
- Create flashcards and use them for practice

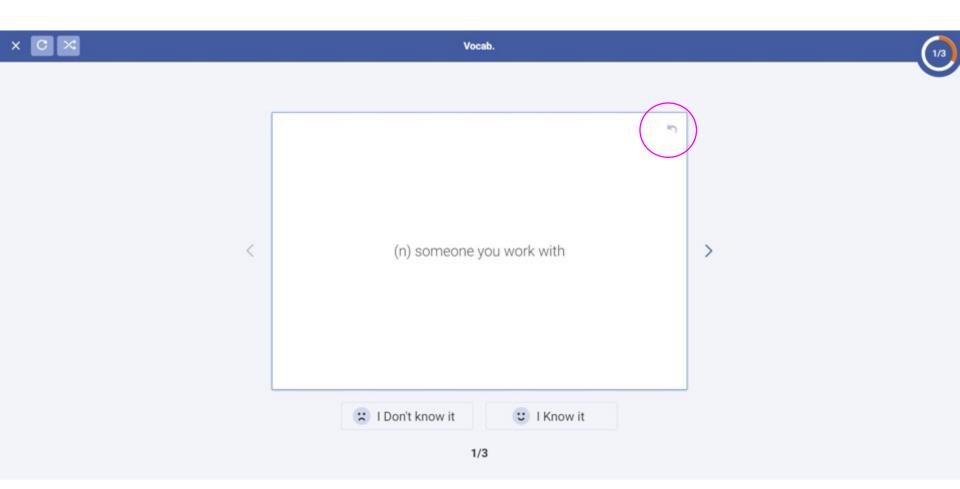


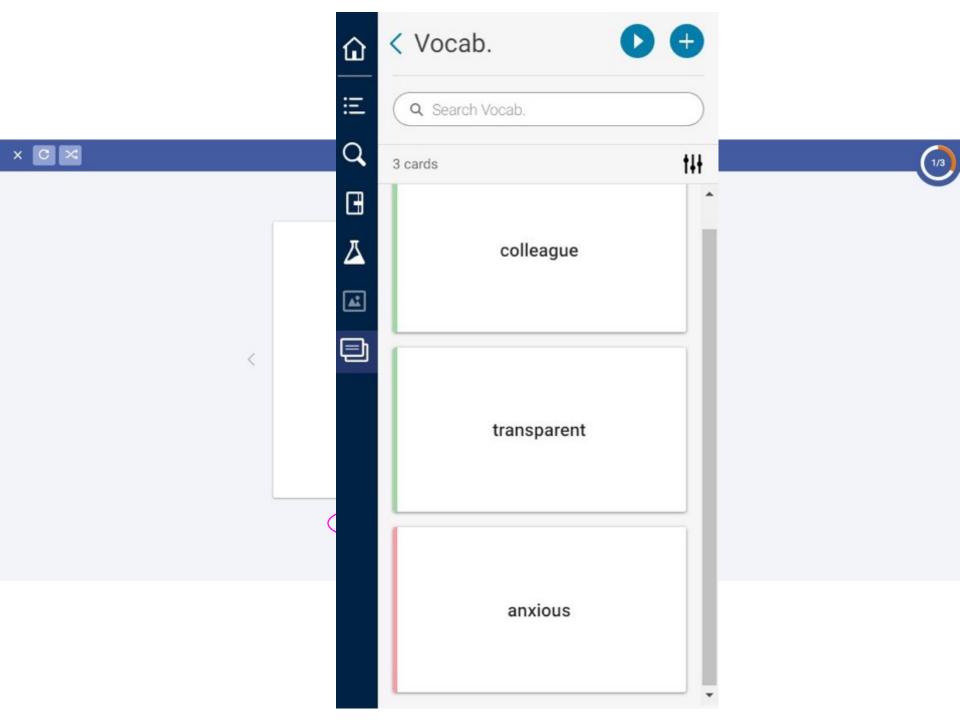
The study of caves and wells in Mexico's Yucatán Peninsula is shining new light on the beliefs of the ancient and modern Maya.

A From deep in a well near the ruins of the Maya city of Chichén Itzá, archeoastronomer¹ Arturo Montero shouts to his colleague on the surface, "I saw it, I saw it! Yes, it's true!" Leaning over the mouth of the well, archeologist Guillermo de Anda hopes to hear what he has suspected for many months. "What is true, Arturo?" he shouts. And Montero yells up again, "The zenith² light, it really works! Get down here!"

Q	3 cards
•	
∡	colleague
a	^↓
Ð	(n) someone you work with
	Cancel Save







Practical Strategies for Building Vocabulary through Reading

1. What are some problems that students face with English vocabulary?

What are some of the challenges with learning English vocabulary?
How many words does a learner need to know?
What does it mean to "know" a word?

2. How can we help?

Encouraging reading and providing texts at the right level
 Select appropriate target vocabulary and provide practice and recycling
 Help students develop practical vocabulary strategies

THANK YOU!

christopher.street@cengage.com

If you have any questions, please type in the chat box!

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