9 Global warming

Verbs for natural processes | Verbs and adjectives associated with scientific study | Nouns associated with climate | Recognizing antonyms

Vocabulary

Natural processes:

- condense (condenses, condensing, condensed)
 - VERB When a gas or vapour **condenses**, or **is condensed**, it changes into a liquid.

 [+ to-inf] Water vapour condenses to form clouds.

 [+ into] The compressed gas is cooled and condenses into a liquid.

 [+ out of] As the air rises it becomes colder and moisture condenses out of it.
- contract (contracts, contracting, contracted)
 - VERB When something **contracts** or when something **contracts** it, it becomes smaller or shorter. Blood is only expelled from the heart when it contracts. New research shows that an excess of meat and salt can contract muscles.
- expand (expands, expanding, expanded)
 VERB If something expands or is expanded,
 it becomes larger. Engineers noticed that
 the pipes were not expanding as expected.
 • The money supply expanded by 14.6 per cent
 in the year to September. [V-ing] a rapidly
 expanding universe
- flow (flows, flowing, flowed)
 VERB If a liquid, gas, or electrical current flows somewhere, it moves there steadily and continuously. = [+ into] A stream flowed into the valley. = [+ into] The current flows into electric motors that drive the wheels.

Verbs associated with scientific study:

estimate (estimates, estimating, estimated)
 (also overestimate, underestimate)
 VERB If you estimate a quantity or value,
 you make an approximate judgment or

- calculation of it. [+ that] The Academy of Sciences currently estimates that there are approximately one million plant varieties in the world. He estimated the speed of the winds from the degree of damage.
- predict (predicts, predicting, predicted)

 VERB If you predict an event, you say that

 it will happen. Chinese seismologists have

 predicted earthquakes this year in Western

 China. [+ that] Some analysts were predicting

 that online sales during the holiday season

 could top \$10 billion. [+ when] tests that

 accurately predict when you are most fertile
- state (states, stating, stated)
 VERB If you state something, you say or write it in a formal or definite way. The table clearly states the amount of fat found in commonly used foods. [+ that] The police report stated that he was arrested for allegedly assaulting his wife. Buyers who do not apply within the stated period can lose their deposits.

Adjectives:

- accurate (opposite inaccurate)
 ADJECTIVE Accurate information, measurements, and statistics are correct to a very detailed level. An accurate instrument is able to give you information of this kind. Accurate diagnosis is needed to guide appropriate treatment strategies.

 a quick and accurate way of monitoring the amount of carbon dioxide in the air
- likely (opposite unlikely)
 ADJECTIVE You use likely to indicate that something is probably the case or will probably happen in a particular situation.

 Experts say a 'yes' vote is still the likely outcome.
 [+ that] If this is your first baby, it's far more likely that you'll get to the hospital too early.

Nouns associated with climate:

current (currents)

- 1 NOUN A current is a steady and continuous flowing movement of some of the water in a river, lake, or sea. [+ of] The ocean currents of the tropical Pacific travel from east to west. The couple were swept away by the strong current.
- 2 NOUN A current is a steady flowing movement of air. [+ of] a current of cool air The spores are very light and can be wafted by the slightest air current.

drought (droughts)

NOUN A **drought** is a long period of time during which no rain falls. • *Drought and famines have killed up to two million people here.*

flood (floods)

NOUN If there is a **flood**, a large amount of water covers an area which is usually dry, for

example when a river flows over its banks or a pipe bursts. • More than 70 people were killed in the floods, caused when a dam burst. • Floods hit Bihar state, killing 250 people.

glacier (glaciers)

NOUN A **glacier** is an extremely large mass of ice which moves very slowly, often down a mountain valley. • *University of Alaska scientists report that the state's glaciers are melting faster than expected.* • *Twenty thousand years ago, the last great ice age buried the northern half of Europe under a massive glacier.*

hurricane (hurricanes)

NOUN A **hurricane** is an extremely violent wind or storm. • In September 1813, a major hurricane destroyed US gunboats and ships that were defending St Mary's, Georgia, from the British. • Around eight hurricanes are predicted to strike America this year.

typhoon (typhoons)

NOUN A **typhoon** is a very violent tropical storm. • large atmospheric disturbances such as typhoons • a powerful typhoon that killed at least 32 people

Practice exercises

1 1 6	JCU	ce exercises				
1	Complete each sentence 1–6 with an appropriate word.					
	1	This mountain range was formed by _ ls millions of years ago.				
	2	Tropical storms and _y s are common in the South Pacific at this time of year.				
	3	The Horn of Africa has been afflicted with severe g s for many years.				
	4	You need to be careful when swimming in these waters as there's a very strong r t.				
	5	The cost of repairing properties damaged by the <code>_l</code> ran into billions of pounds.				
2	6	We've been advised to board up the windows and stay indoors as the $_$ u r $____$ is approaching fast.				
		Read the questions 1–4 about the words in Exercise 1. Then listen to Track 14 to find answers.				
	1	Is a hurricane more likely to cause a flood or a drought?				
	2	What is the difference between a hurricane and a typhoon?				
	3	Where might you find a glacier?				
	4	Where might you feel a current: in the air, in the water, in both air and water?				

Exam tip: The prefixes un-, in-, il-, ir- and dis- are commonly used to make words negative.

Examples: necessary - unnecessary, accurate - inaccurate

Learning to recognize negative prefixes can help you work out the meaning of words.

- 3 Make words 1-5 negative by adding a prefix.
 - 1 agree
- 4 legal
- 2 consistent 5 responsible
- 3 likely

Exam tip: The word pairs above are antonyms (words with opposite meanings). Other prefixes that are commonly used to form antonyms include:

prefix	meaning	example		prefix	meaning	example
col- com- con-	coming together	collect combine connect	VS.	ex-	moving apart or outwards	exclude expel
over-	too much	overstate	vs.	under-	too little	understate
pre-	before	pre-industrial	vs.	post-	after	post-industrial

Knowing the meaning of these prefixes can help you work out the meaning of unfamiliar words and their opposites.

- 4 Match the prefixes 1-4 with the word roots a-d.
 - 1 con-
- **a** -pand
- **2** ex-
- **b** -estimate, -flow
- **3** pre-
- **c** -dense, -tract
- 4 over-
- **d** -historic
- 5 Choose words from exercises 3 and 4 to complete sentences 1-7. Make any necessary changes to verb forms.
 - 1 Water vapour ______ to form clouds.
 - 2 When water turns into ice, it _____
 - 3 In ______times, people endured ice ages, that is prolonged periods of intense cold.
 - 4 During the flooding, rivers and streams _____ their banks in countless places.
 - 5 Climate scientists came to different conclusions because the data was ___
 - **6** Global warming is ______ to slow down in the near future.
 - **7** Politicians _____ over how to deal with climate change.