

11 SCIENCE AND NATURE

STUDENT'S BOOK PAGES 96–97

breeze /bri:z/ Noun

a breeze is a gentle wind

a gentle breeze was blowing through the woods | there was only a slight breeze

Adjective: breezy

• brisa

freezing /'fri:ziŋ/ Adjective

if it is freezing, the weather is very cold or the air in a room is very cold

it's freezing outside, so take a warm coat | the water was freezing when I jumped in

Verb: freeze | Adjective: frozen

I thought I was going to freeze to death!

• gelat / congelat

storm /stɔ:(r)m/ Noun

a storm is very bad weather with very strong winds and heavy rain or snow

Collocates: a storm breaks

a big storm is about to hit the East coast of the USA | the storm broke (started) an hour before we got home

Adjective: stormy

Collocates: stormy weather

• tempesta

windy /'wi:ndi/ Adjective

when it is windy, the wind is blowing very hard

it's been very wet and windy recently | windy conditions made the bike ride home harder than usual

Noun: wind

the wind is blowing from the east

• ventós

STUDENT'S BOOK PAGES 98–99

ban /bæn/ Verb

if someone in authority bans something, they make a law to say that it is not allowed. If they ban someone from doing something, they do not allow them to do it

Collocates: ban someone from doing something

they're going to completely ban smoking next year | cigarette advertising was banned years ago

Noun: ban | Adjective: banned

Collocates: a ban on something

the government has introduced a ban on smoking

• prohibir

conduct /kən'dʌkt/ Verb

if you conduct an activity, you arrange it and carry out all the work that needs to be done

Collocates: conduct an experiment/investigation | conduct research

they wanted to conduct an experiment on animals | the local police conducted an investigation into the murder | the interview was conducted by phone

• dirigir

environment /ɪn'vaɪrənmənt/ Noun

the environment is the land, air, and natural water around us

Collocates: the natural environment | harm/damage the environment | protect the environment

we need to do more to protect the environment | trees are an essential part of our natural environment

Adjective: environmental | Adverb: environmentally |

Noun: environmentalist

Collocates: environmental damage/pollution

• medi ambient

extinct /ɪk'stiŋkt/ Adjective

if a type of animal or plant is extinct, it no longer exists anywhere in the world

Collocates: become extinct

if we don't do more to protect bees, they could become extinct | it's been extinct since 1908

Noun: extinction

Collocates: face extinction

these bears are facing extinction (are at risk of becoming extinct)

• extingit

forecast /'fɔ:(r)kɑ:st/ Noun

a forecast is a statement of what is expected to happen in the future based on the facts that are available now

Collocates: a weather forecast

what's the weather forecast for the weekend? | the economic forecast was very depressing

Verb: forecast | Noun: forecaster

Collocates: a weather forecaster

he correctly forecast the result of the election

• predicció

fund /fʌnd/ Verb

if someone *funds* something, they provide the money that is needed to pay for it

the government should fund more research | the project was funded by a major oil company

Noun: *funding*

the funding ran out before we'd finished the research

- subvencionar

hit /hɪt/ Verb

when something dangerous or damaging *hits* a place, it arrives there and has a serious and bad effect

a huge storm is going to hit the coast in the next two hours | the financial crisis of 2008 hit the company very hard

- fuetejar

investigate /ɪn'vestɪgeɪt/ Verb

if someone *investigates* a situation or event, they look at all the facts that they can find about it in order to learn exactly what happened or how something works

they're investigating the effect of colour on memory | his claim was thoroughly investigated by the police

Noun: *investigation* | Noun: *investigator*

Collocates: an investigation into something | conduct an investigation | be under investigation

the authorities are conducting an investigation into the plane crash

- investigar

negative /'negətɪv/ Adjective

something that is *negative* is bad or depressing. If a person is *negative* about something, they believe they are in a bad situation and do not think about any good possibilities

the cold summer had a negative effect on tourism in the area | he had a very negative attitude

Adverb: *negatively* || Opposite – Adjective: *positive*

people reacted negatively to the news

- negatiu

nuclear /'nju:kliə(r)/ Adjective

nuclear power or *nuclear* energy is energy that is created when the central part of an atom is broken apart

they're going to build five new nuclear power plants | nuclear energy is better for the environment than using coal or gas

- nuclear

power /'paʊə(r)/ Noun uncount

power is energy that is used to make machines work or to heat water, houses, etc.

storms caused power cuts in the region (when electricity could not get to houses, factories, shops, etc.) | the power station (place where electricity is made) was closed in 2004

- energia

pull down /'pʊl ,daʊn/ Phrasal verb

to *pull down* a building means to deliberately destroy it and remove everything, for example, in order to put a new building in its place

they're going to pull down the old cinema | the house where I grew up was pulled down last year

- enderrocar

rocket /'rɒkɪt/ Noun

a *rocket* is a vehicle that can travel into space

we're going to launch a rocket into space next year | the Apollo spacecraft was launched with a Saturn V rocket

- coet

unknown /ʌn'nəʊn/ Adjective

if something is *unknown*, you do not know it

all the bees are dying for some unknown reason | the word "hockey" is of unknown origin (no one knows what language it comes from) | the true story remained unknown until last year

- desconegut

STUDENT'S BOOK PAGES 100–101**bark** /bɑ:(r)k/ Verb

when a dog *barks*, it makes the usual sound that dogs make

when he saw the man, Scooby barked very loudly | the dog next door was barking all night

Noun: *bark*

I could hear the bark of a big dog

- bordar

boost /bu:st/ Verb

to *boost* something means to make it bigger or better

farmers can boost milk production by being nice to their cows | this win did a lot to boost the team's confidence

Noun: *boost*

Collocates: give something a boost

I'll show you how to give your Facebook profile a boost

- augmentar

cage /keɪdʒ/ Noun

a *cage* is a container with bars that people use to keep animals or birds in

the parrots were kept in a cage | it's cruel to keep animals in cages

Adjective: *caged*

- qàbia

case /keɪs/ Noun

a *case* is a legal situation in which the police find and present evidence and a court decides if someone has committed a crime or not

there was enough evidence to take the case to court | an unsolved case (a crime for which the police have not found the criminal)

- cas

court /kɔː(r)t/ Noun

a *court* is the place where a judge decides if someone actually committed a crime, and tells them what their punishment is if they are guilty

Collocates: appear in court | take someone to court

she was a witness in court in a murder case | he is due to appear in court on June 17th

- tribunal

detect /dɪ'tekt/ Verb

if you *detect* something that is difficult to see or hear, you find it

the rats were trained to detect mines and bombs lying in the ground | the machine can detect very small quantities of gas

Noun: *detector*

a metal detector (a device that makes a noise when it is close to metal)

- detectar

drop /drɒp/ Verb

if you *drop* something, you let go of it by accident and it falls to the ground

someone had dropped a wallet | be careful you don't drop that plate! | she dropped her gloves on the floor

- deixar caure

elderly /'eldə(r)li/ Adjective

if you describe someone as *elderly*, you are saying in a polite way that they are old. *The elderly* are people who are old

a pet rabbit saved his elderly owners | an elderly lady sat down next to me on the bus

Noun: *the elderly*

winter causes many problems for the elderly

- gent gran

evidence /'eɪd(ə)ns/ Noun uncount

evidence is facts that prove that something is true

Collocates: evidence of something | evidence that | evidence against someone

the police don't have enough evidence to arrest him | there was no evidence of any criminal activity

- evidència

explode /ɪk'spləʊd/ Verb

when a bomb *explodes*, it makes a loud noise and sends lots of pieces of metal into the air that can cause a lot of injury and damage

the bomb exploded outside the main railway station | terrorists used mobile phones to explode the bomb

Noun: *explosion*

the explosion could be heard ten miles away

- explotar

hearing /'hɪərɪŋ/ Noun uncount

someone's *hearing* is their ability to hear sounds. *Hearing* is one of the five senses; the other senses are *sight*, *smell*, *taste*, and *touch*

Collocates: a sense of hearing | a hearing aid

I'm losing my sense of hearing | my grandfather uses a hearing aid (a small device in his ear that helps him hear better)

- oïda

hero /'hɪərəʊ/ Noun

a *hero* is someone who does something very brave or very useful and is admired by a lot of people. *Hero* is usually used about men, although nowadays the word is used about women too. In the past, the word *heroine* was usually used about women

his father was a war hero (had fought bravely in a war) | she was a real-life hero (a living person, not someone in a made-up story)

Feminine – Noun: *heroine*

- heroi

in public /ɪn 'pʌblɪk/ Phrase

if something happens *in public*, it happens where lots of people can see and hear it, rather than in private where people are not allowed to be present

I'd never made a speech in public before | this was the first time the painting had been shown in public

- en públic

insist /ɪn'sɪst/ Verb

if you *insist* on doing something, you say very strongly that you are going to do it even if other people do not want you to

Collocates: insist on doing something

he insisted on paying for the meal | she insisted that I should see a doctor

Noun: *insistence*

Collocates: insistence on doing something
at her insistence, the painter reduced his price

- insistir

jail /dʒeɪl/ Noun

a *jail* is a building where prisoners live until the end of their punishment

Collocates: send someone to jail | be in jail | a jail bird

he's been in jail since January | the judge sent him to jail for five years

Verb: *jail*

- *presó*

kindness /'kaɪn(d)nəs/ Noun uncount

kindness is generous and helpful behaviour towards someone. The expression *the milk of human kindness* comes from the play "Macbeth" by William Shakespeare, and refers to the ability of people to behave in a very generous and kind way

I'll always remember her kindness to me after my father died | I hope I can repay your kindness one day (do something nice for you as a way of thanking you)

Adjective: *kind*

- *amabilitat*

let /let/ Verb

to *let* someone go somewhere, do something, or have something means to allow them to go there, do it, or have it

Collocates: let someone do something

the driver stopped to let the passengers get some fresh air | I rang the bell and waited for someone to let me in | they wouldn't let me see my grandfather when he was in hospital

- *deixar*

nervous /'nɜː(r)vəs/ Adjective

if you are *nervous*, you are very worried and slightly scared that you will do something badly

Collocates: nervous about something

I was very nervous because I'd never made a speech in public before | he was nervous about the interview

Adverb: *nervously*

he waited nervously for his turn to go onto the stage

- *nerviós*

net /net/ Noun

a *net* is a large piece of cloth with holes in it that allow air or water to pass through. *Nets* are used to catch fish. If the holes are very big, small fish can go through and only big fish are caught

fishermen found a shark in their net | a butterfly net

- *xarxa*

owner /'əʊnə(r)/ Noun

the *owner* of something is the person that it belongs to

there are 80 million gun owners in America | I never met the original owner of the house

Verb: *own* | Noun: *ownership*

- *propietari*

pet /pet/ Noun

a *pet* is an animal that you keep at home

do you have any pets? | she has a pet dog called Pipi

- *animal de companyia*

previously /'pri:vɪəslɪ/ Adverb

something that happened *previously* happened at a time before something else

the parrots had previously lived in a cage (they're not in it now) | he works for a national newspaper and, previously, he was at the BBC

Adjective: *previous*

- *prèviament*

react /ri:'ækt/ Verb

if someone or something *reacts* to something, they behave in a particular way because of it

Collocates: react to someone or something

they wanted to see how he would react to the main suspect | she reacted angrily to the news

Noun: *reaction*

Collocates: a reaction to something | an immediate reaction

his reaction to the news was very positive

- *reaccionar*

save /seɪv/ Verb

if you *save* someone or something, you help them escape a very dangerous situation so that they do not suffer harm or damage

Collocates: save someone's life

having the operation saved his life | he fell into the river but was saved by a fisherman who pulled him out | a campaign to save polar bears from extinction

- *salvar*

shocked /ʃɒkt/ Adjective

if you are *shocked*, you are very surprised and upset by something

I was really shocked when I saw a rat in the kitchen | we were all deeply shocked by his death

Adjective: *shocking* | Verb: *shock*

what shocked me the most was that he said he would do it again

- *sorprès*

sight /saɪt/ Noun uncount

someone's *sight* is their ability to see things. *Sight* is one of the five senses; the other senses are *hearing*, *smell*, *taste*, and *touch*

Collocates: a sense of sight

he's got poor sight (he can't see very well) | I was scared that I might lose my sight

- *vista*

suspect /'sʌspekt/ Noun

a *suspect* is someone the police think might have committed a crime

they wanted to see how he would react to the main suspect | police have interviewed three suspects

Verb: *suspect*

Collocates: suspect someone of something | suspect that

- sospitós

wild /waɪld/ Adjective

a *wild* animal lives in natural conditions and is not looked after by people. *Wild* plants grow naturally and are not looked after by people

his dog was killed by a wild animal in the forest | she picked a bunch of wild flowers

Noun: *the wild*

- salvatge

wildlife /'waɪld,laɪf/ Noun uncount

wildlife is animals in general, especially animals that live in natural conditions rather than farm animals or pets. The general word for farm animals is *livestock*

we need to do more to protect wildlife in this country | these leaves are not good food for wildlife or livestock

- vida salvatge

witness /'wɪtnəs/ Noun

a *witness* or an *eye witness* is someone who sees a crime and can say what happened

Collocates: a witness to something | an eye witness

police are asking witnesses to contact them | he had to give evidence in court as a witness to the murder

Verb: *witness*

- testimoni

STUDENT'S BOOK PAGES 102–103**accidentally** /,æksɪ'dent(ə)li/ Adverb

if something happens *accidentally*, it happens even though no one wanted it to. If you do something *accidentally*, you do not do it deliberately and do not want it to happen

the cure for the disease was accidentally discovered | I accidentally knocked the glass off the table

Adjective: *accidental* | Noun: *accident*

- accidentalment

atom /'ætəm/ Noun

an *atom* is a very small piece of stuff which is too small to see with your eyes. Things like gold have only one kind of *atom*, while water is made of two different sorts of *atom*, oxygen and hydrogen

graphene is just one atom thick | water is H₂O: two atoms of hydrogen and one of oxygen

- àtom

attraction /ə'trækʃ(ə)n/ Noun uncount

attraction is a force that pulls two objects towards each other

there's an attraction between the Earth and the moon

Verb: *attract*

if you don't dry the table it will attract dust

- atracció

award /ə'wɔ:(r)d/ Verb

to *award* something to someone means to give them a prize for something good that they have done

they were awarded a Nobel Prize for the discovery | the judges awarded first prize to Ian McEwan

Noun: *award*

Collocates: win an award

he's won several awards for his books

- atorgar un premi

balloon /bə'lu:n/ Noun

a *balloon* is a ball made of thin rubber which is full of air and which is used as a toy or as a decoration

Collocates: burst a balloon | blow up a balloon

on the day of the party, we put balloons on the front door | keep the balloons away from the fire or they'll burst

- globus

ceiling /'si:lɪŋ/ Noun

the *ceiling* is the top surface in a room, over your head

how do spiders walk on ceilings? | the ceiling is very low in here

- sostre

charge /tʃɑ:(r)dʒ/ Noun

an electric *charge* is an amount of electricity that is stored in something such as a battery

the movement creates a small electric charge | there are two types of electric charge: positive and negative

Verb: *charge*

- càrrega

comfort /'kʌmfə(r)t/ Verb

if you *comfort* someone, you do things to help them become calm and relaxed when they are upset or very sad

the baby was comforted by her mother | her father rushed to the scene to comfort the family

Adjective: *comforting*

thank you for your comforting words

- reconfortar

confidently /'kɒnfɪd(ə)ntli/ Adverb

if you do something *confidently* you do it in a positive way, believing strongly in your ability to do it

she walked confidently into the interview room | he spoke confidently about the future

Adjective: *confident* | Noun: *confidence*

- *amb confiança*

cruel /'kru:əl/ Adjective

someone or something that is *cruel* makes people or animals suffer in an unnecessary way

taking babies from their mothers is considered cruel | children can be extremely cruel to each other

Adverb: *cruelly* | Noun: *cruelty*

he was treated very cruelly by the other students

- *cruel*

electric /ɪ'lektrɪk/ Adjective

electric things use electricity to work

Harrison played an electric guitar on the recording | the movement creates a small electric charge

Noun: *electricity* | Adjective: *electrical*

we use more electricity in the winter months because of the heating

- *elèctric*

explore /ɪk'splɔ:(r)/ Verb

if you *explore* a place, you look or travel all around it in order to find out what it is like

they explored the room quite confidently | I'm planning a holiday to explore North Wales next year

- *explorar*

factor /'fæktə(r)/ Noun

a *factor* is one of several things that have an effect on an event or situation

what factors are important for a good quality of life? | factors such as smoking and bad diet can lead to heart attacks

- *factor*

gene /dʒi:n/ Noun

your *genes* are the parts in the cells of your body that control what you look like and other things about your body

they've found the gene that causes the disease | we pass on our genes to our children

Adjective: *genetic*

- *gen*

importance /ɪm'pɔ:(r)t(ə)ns/ Noun uncount

the *importance* of something is how important people think it is

Collocates: *vital importance* | *recognise/realise the importance of something*

they investigated the importance of love and contact between mothers and babies | water quality is of vital importance (very important indeed)

Adjective: *important*

- *importància*

layer /'leɪə(r)/ Noun

a *layer* is a flat amount of something that covers something else, or that is between two other things

Collocates: *a layer of something*

the roof was a single layer of steel sheets | put a layer of potatoes in the bottom of the dish, then a layer of onions

- *capa*

particular /pə(r)'tɪkjʊlə(r)/ Adjective

if you say you are talking about a *particular* person or thing, you mean you are talking about one person or thing even though you have not said exactly which one

some violent criminals share a particular gene | one particular book had a huge influence on my life

- *particular*

peel /pi:l/ Verb

if you *peel* fruit or vegetables, you cut the outside skin off. If you *peel* something away from something else, you remove one layer and leave another layer underneath it

gently peel off the plastic cover | whose turn is it to peel the potatoes?

Noun: *peel*

- *pelar*

prize /praɪz/ Noun

a *prize* is something you are given for winning a competition or for a very good achievement

Collocates: *win a prize* | *be awarded a prize*

she won first prize in a poetry competition | I was awarded a prize of £100

- *premi*

rare /reə(r)/ Adjective

if something is *rare*, it is not very common or it does not happen very often

he suffered from a rare blood disease | the winters are cold, although snow is rare

Adverb: *rarely*

he used to be keen, but he rarely plays the piano now

- *excepcional / estrany*

security /sɪ'kjʊərəti/ Noun uncount

security is a feeling of being safe

the monkey had the security of knowing his mother was there | he wanted the comfort and security of owning his own home

Adjective: *secure* || Opposites – Noun: *insecurity* |

Adjective: *insecure*

- *seguretàt*

-ITY

Words ending in *-ity* are usually nouns and are connected to adjectives.

<i>the security of your own home</i>	<i>a secure childhood</i>
<i>a minority of voters</i>	<i>a minor issue</i>
<i>have a majority</i>	<i>a major problem</i>
<i>have no creativity</i>	<i>a creative job</i>
<i>have a disability</i>	<i>be disabled</i>

sticky tape /'stɪki ˌteɪp/ Noun uncount

sticky tape is a thin strip of plastic that has glue on one side, and that you can use to stick pieces of paper together or to fix things to a wall

I fixed it on the wall with sticky tape | I ran out of sticky tape and had to buy some more

- *cinta adhesiva*

tear /teə(r)/ Verb

if you tear something such as paper or cloth, you pull it so that it falls into two separate pieces

graphene is so strong that you just can't tear it | she read the letter, then tore it into pieces

Adjective: *torn*

she was wearing a blue T-shirt and torn jeans

- *llàgrima*

toy /tɔɪ/ Noun

a toy is an object that children play with

the children's bedroom was full of soft toys (small animals made of soft material) | her father made wooden toys

- *joguina*

violent /'vaɪələnt/ Adjective

something that is violent involves the use of physical force or weapons to hurt or kill people

Collocates: *violent crime* | *a violent attack*

many other people have the same gene but aren't violent | I can't understand his violent behaviour

Adverb: *violently* | Noun: *violence*

I thought there was too much violence in the film

- *violenta*

weight /weɪt/ Noun

the weight of someone or something is how heavy they are

Collocates: *lose weight* | *put on weight*

the attraction is strong enough to hold something

100 times the weight of the spider | he's been trying to lose weight

Verb: *weigh*

- *pes*