# 3 It's natural

# Glossary

Page	29	3.8	marine (adj) /məˈriːn/ of the sea • He studies marine life in the
3.1	natural (adj) /ˈnætʃrəl/ from nature and not made by people ● <i>This</i>	2.0	Pacific Ocean. 💠
	furniture is made of natural materials, including cotton and wood. ➤ nature (n), naturally (adv)  ❖	3.9	biologist (n) /barˈɒləʤɪst/ sb who studies living things ● She's interested in plants and animals and wants to be a biologist when she grows up. ➤ biology (n),
3.2	aurora borealis (n) /əˌrɔːrə ˌbɔːriˈælɪs/ coloured light that appears sometimes in the sky in the most northern countries • On our visit to Norway, we saw the colourful aurora borealis in the sky one night. *  Syn: the Northern Lights	3.10	biological (adj) * fascinated (adj) /'fæsəneɪtɪd/
		3.10	very interested • I'm fascinated by whales.  They're such beautiful creatures. ➤ fascinate (v), fascinating (adj) ❖
3.3	cause (v) /kɔːz/ to make sth happen ● The storm caused a lot of serious problems. ➤ cause (n) ❖	3.11	coral reef (n) /'kɒrəl riːf/ a long narrow line of coral, rocks and other substances near the surface of the sea • You can swim in the sea and look at the beautiful coral reef. ❖
Reading Pages 30-31		3.12	appearance (n) /ə'pɪərəns/ the way sb/sth looks ● 'Can you describe his appearance?' 'Well, he's tall and thin and has brown hair.' ➤ appear (v) ❖
3.4	climate change (n) /ˈklaɪmət tʃeɪndʒ/ changes in the Earth's weather caused by the increase of gases like carbon dioxide in the atmosphere • Because of climate change, many plants and animals are in danger.	3.13	actually (adv) /ˈæktʃuəli/ used to emphasise a fact ● I actually fell asleep in the lesson because I was so tired.  > actual (adj) ❖
3.5		3.14	make up (sth) (phr v) /meɪk ʌp ('sʌmθɪŋ)/ to form (sth) ● The team is made up of local volunteers. ❖
LOOF	has affected our plans so now we can't go to the beach. �		polyp (n) /'polip/ a tiny animal that lives in the sea ● There are many polyps which make the coral reefs.
Aff	ect vs effect	3.16	create (v) /kri'eɪt/
Notice the difference between these two words. <b>Affect</b> is a verb, while <b>effect</b> is a noun.  The weather can <b>affect</b> people's feelings negatively.  The <b>effect</b> of the weather on people's feelings is			to make, cause to exist • You can create a beautiful garden by planting a variety of flowers. ➤ creature, creation (n), creative (adj)
	etimes negative.	3.17	skeleton (n) /'skelrtən/ all the bones of a body ● Do you know how
3.6	explorer (n) /Ik'splɔːrə(r)/ sb who travels to new places to find out about them • Christopher Columbus was an explorer who sailed to the coast of America. > explore (v), exploration (n) ❖		many bones there are in an adult human skeleton? ❖
		3.18	limestone (n) /ˈlaɪmstəʊn/ a rock that is made of calcium carbonate
3.7	Great Barrier Reef (n) /greɪt 'bæriə riːf/ the largest coral reef in the world, parallel to the northeast coast of Australia ● I've been diving in the Great Barrier Reef. It was fantastic! ❖		(CaCO₃) • People used limestone to build ancient buildings like the pyramids.  ❖

3.19	cover (v) /'k∧və(r)/ to lie on the surface of something • The snow covered the garden when we woke up and	3.33	find out (phr v) /faɪnd aʊt/ get information about sb/sth ● I want to find out more about my ancestors and how they lived	
3.20	nearly (adv) /'nɪəli/ almost; not completely ● He's nearly 18. His birthday is next month. ❖	3.34	many years ago. ❖ perhaps (adv) /pəˈhæps/ maybe ● Perhaps we'll go to Crete next year, but I'm not sure. ❖	
3.21	structure (n) /'str∧ktʃə(r)/ sth that has been built ● We saw a coral reef on our holiday and it was an incredible structure. ❖	3.35	clean up (phr v) /kliːn ∧p/ to make sth clean and tidy • The students cleaned up the school playground and put the litter in bins. ❖	
3.22	visible (adj) /'vɪzəbl/ that can be seen ● The bright red flowers were visible from a distance. ➤ visibility (n)  ❖  ⑤ Opp: invisible	3.36	remains (n pl) /rr'meɪnz/ the pieces of sth/sb that are still visible when the other parts have been destroyed, eaten or removed, etc. • Visitors can see the remains	
3.23	beauty (n) /'bjuːti/ the quality of being beautiful ● Her paintings showed the beauty of the island. ➤ beautiful (adj)		of the old Roman wall between Scotland and England. ➤ remain (v) ❖	
		3.37	form (v) /fɔːm/ to come together and start to exist • <i>The</i>	
3.24	algae (n pl) /ˈælgiː/ simple plants without roots or stems that grow in or around water ● <i>The lake was covered in</i>		limestone rocks were formed millions of years ago from the bodies of small organisms in the sea. ➤ form (n) ❖	
0.05	blue-green algae. 💠	3.38	save (v) /seɪv/ to keep sb/sth safe from harm • The brave	
3.25	although (conj) /วːlˈðəʊ/ even though; used to introduce a clause of contrast ● Although he knows some words in		firefighter saved the dog from the burning building. ➤ safe (adj), safely (adv), safety (n)	
	French, he isn't able to speak the language.	3.39	relate to (phr v) /rɪ'leɪt tuː/ to refer to sth; to have a connection with sth	
3.26	species (n) /'spiːʃiːz/ a type of plant or animal ● The forest is home to several species of bats.❖		His article relates to the work he has done to protect wildlife.	
3.27	provide (v) /prəˈvaɪd/ to give ● Nature provides new mothers with milk to feed their babies. ➤ provision (n)  ❖	3.40	snorkelling (n) /'snɔːkəlɪŋ/ the activity of swimming with a tube to breathe through and a mask ● This reef isn't deep, so you can go snorkelling here and see it clearly.  >> snorkel (n, v) ❖	
3.28	protect (v) /prəˈtekt/ to make sure that sb/sth is not harmed  • You must protect your little brother and not let anything bad happen to him. ➤ protection (n), protective (adj), protectively (adv)	3.41	valuable (adj) /ˈvæljuəbl/ very useful because it is good for you • My teacher gave some valuable advice about what to do. ➤ value (n, v) ❖	
		3.42	take action (phr) /teɪk ˈækʃn/ do sth about a problem • Anima is a conservation	
3.29	the land next to the sea • We live in a village on the coast. ➤ coastal (adj) ❖		group that takes action to protect wild animals and birds in Greece. ❖	
3.30	however (adv) /haʊˈevə/ despite this fact • I grew up in a beautiful village. However, I decided to move to the city when I became an adult. ❖	3.43	summary (n) /'sʌməri/ a short text that gives the main points of sth in a few words ● The writer's final paragraph was a summary of the article with his general opinion. ➤ summarise (v) ❖	
3.31	turn (v) /t3:n/ to change and become different ● It was autumn and the leaves on the trees were turning brown. >> turn (n) ❖			
3.32	discover (v) /dr'sk∧və(r)/ to find sb/sth that was hidden or unknown  • The archaeologist discovered the king's buried treasure. ➤ discovery (n) ❖			

#### Vocabulary Page 32 3.57 temperature (n) /'temprətfə(r)/ a measure of how hot or cold sb/sth is • It's very hot today. The temperature is 40°C. 3.44 cave (n) /keɪv/ a large hole in the side of a mountain or under 3.58 produce (v) /prəˈdiuːs/ the ground • Paintings of animals that humans to make sth • This factory produces parts hunted thousands of years ago have been for computers. > producer (n), product (n), found in caves. . productive (adj), productively (adv) 3.45 cliff (n) /klrf/ a high area of land next to the sea • Thev burn (v) /bs:n/ 3.59 stood on the edge of the cliff and looked down to use sth such as fuel or energy • We burn at the sea. 💠 a lot of petrol during winter to keep warm. glacier (n) /'qlæsiə(r)/ 3.46 >> burn (n) ❖ \_ a large mass of ice that moves slowly down a atmosphere (n) /'ætməsfɪə(r)/ 3.60 valley • Scientists say that many glaciers are all the gases in the air around the Earth getting smaller because they are melting. • The atmosphere was filled with dust from the desert storm. > atmospheric (adj) 3.47 rainforest (n) /'reinforist/ a thick forest in the tropics • Half the Amazon 3.61 source (n) /szs/ rainforest could be lost within 20 years a place, person or thing you get sth from because people are cutting down the trees. Rivers and lakes are a source of drinking water for many creatures. . 3.48 stream (n) /strixm/ 3.62 run out (of) (phr v) /rʌn aʊt (əv)/ a small river • You can see the fish in the stream finish a supply of sth • I can't make a cake because it is shallow. \* because we've run out of eggs. . 3.49 valley (n) /'væli/ 3.63 desert (n) /'dezət/ an area of land between hills • Our hotel was a large area with very little rain and very few in the valley, so it was a difficult walk up the hill plants growing in it • It hasn't rained for years the next day. . in this part of the desert. . mammal (n) / mæml/ 3.50 3.64 available (adj) /ə'veɪləbl/ the type of animal of which the mother feeds that you can get, buy or find • Information her children on milk from her body • Cats, about endangered species is available on the dolphins and people are all mammals, but Internet. > availability (n) ❖ \_ 3.65 go up (phr v) /gəʊ ʌp/ 3.51 huge (adj) /hjuzdz/ to become more or go higher; to increase extremely large • There's a huge tree at the • The price of olive oil went up last winter. bottom of our garden. \_ 3.52 fossil fuel (n) /'fosl 'fjuxl/ a substance like coal or oil that was formed Climate change underground millions of years ago and is used atmosphere renewable energy to create energy • Fossil fuels like coal will not biodegradable reuse last for ever. . fossil fuel solar power 3.53 renewable energy (n) /rɪˈnjuːəbl ˈenəʤi/ temperature garbage energy from natural sources that will never run power station waste out like wind, water and sunlight • The heat recycle from the sun is a form of renewable energy. 3.54 solar power (n) /'səʊlə 'paʊ.ə-/ Grammar Page 33 energy from the sun • Solar power is used a lot in warm, sunny countries like Greece. scientist (n) /'saɪəntɪst/ sb who studies science and works to find 3.55 power station (n) /'paʊə 'steɪʃn/ out more about sth scientific . Scientists are a place where electricity is produced • There studying the effects of pollution on living things. are power stations all over the world because > science (n), scientific (adj) . people use a lot of electricity. . instructions (n pl) /In'strak[nz/ 3.67 3.56 human (n) /hjuːmən/ a list of information on how to do or make sth a person • Humans are destroying the • Read the instructions for your new environment with their cars and factories. smartphone carefully before you switch it on.

> humanity (n), human (adj) ❖ \_

→ instructor (n), instruct (v) ❖ \_\_\_\_

3.68	experience (n) /ɪk'spɪəriəns/ an event that sb lives through ● Exploring the Great Barrier Reef was an amazing experience. ➤ experience (v) ❖	3.80	hearing (n) /'hɪərɪŋ/ the ability to hear ● Cats have a great sense of hearing. They can hear their owner's car before they see it. ➤ hear (v) ❖
3.69	achievement (n) /əˈtʃiːvmənt/ sth sb succeeds in doing ● Raising young pandas in a zoo is an incredible achievement because it is very hard to do. ➤ achieve (v)	3.81	sight (n) /saɪt/ the ability to see ● Granddad's sight isn't as good as it used to be, so he wears glasses. ❖
3.70	continue (v) /kənˈtɪnjuː/ to keep doing sth or happening • Don't stop! Continue working! ❖	3.82	touch (n) /tʌtʃ/ the ability to feel how sth is with your fingers  • His hands were so cold that he had no sense of touch. ➤ touching (adj), touch (v)
3.71	iceberg (n) /'aɪsbɜːg/ a mass of ice in the sea ● The Titanic hit an iceberg and sank to the bottom of the ocean. ❖	3.83	attack (n) /ə'tæk/ an act of violence intended to hurt sb ● Shark attacks are rare, but usually deadly. ➤ attack
3.72	danger (n) /'deɪndʒə(r)/ sb/sth that might cause hurt or damage ● Icebergs are a danger to big ships. ➤ dangerous (adj), dangerously (adv) ❖	3.84	(v), attacker (n) ❖ truth (n) /tru:θ/ the true facts about sth • Don't believe everything you read on the internet. Check the facts to find
3.73	accident (n) /ˈæksɪdənt/ sth (usually bad) that happens without you expecting it • Drive carefully or you might have	3.85	out the truth. ➤ true (adj), truly (adv)   time (v) /baɪt/
3.74	an accident. ➤ accidental (adj), accidentally (adv) ❖  patrol (n) /pəˈtrəʊl/		to use your teeth to cut • I don't think that dog will bite you, but be careful. ➤ bite (n)  ❖
	a group of people who go to different parts of an area to make sure there are no problems  • The lost boat was seen by the sea patrol.  > patrol (v) ❖	3.86	object (n) /'pbc/gekt/ a thing ● The sea in the port was polluted and full of objects like cans and plastic bags. ❖
3.75	ever since (phr) /'evə(r) sɪns/ from that time on ● Ever since we moved to the coast, we've had lots more weekend visitors. ❖	Spe	eaking Page 35
List	ening Page 34	3.87	environmental (adj) /ɪnˌvaɪrənˈmentl/ related to the environment ● We had a class discussion about environmental problems, including pollution. ➤ environment (n), environmentally (adv) ❖
	the measurement of how long sth is • I know that the Nile is the longest river in the world, but I don't know its length. ➤ lengthen (v), long (adj) ❖	3.88	public transport (n) /'p∧blɪk 'trænspɔːt/ bus, train, metro, tram, etc. that people ride on  I use public transport to get to work in the city. ❖
3.77	mostly (adv) /'məʊstli/ generally ● In Greece, the weather is mostly dry and sunny in summer. ❖	3.89	plant (v) /pla:nt/ to put plants or seeds in the ground to grow • I'm going to plant some tomatoes and
3.78	approximately (adv) /əˈprɒksɪmətli/ almost exactly ● I learnt to cook approximately ten years ago. > approximate (adj)  *	3.90	recycle (v) /,riː'saɪkl/ to put used materials through a special process so they can be used again • We must all recycle
3.79	sense (n) /sens/ one of the five natural powers of sight, hearing, taste, smell and touch • Dogs have an excellent sense of smell. ➤ sense (v), sensitive (adj) ❖	3.91	paper, glass and aluminium. ❖  committee (n) /kəˈmɪti/ a group of people who meet and make decisions ● The environmental committee decided to set up a charity to help endangered species. ❖

3.92	move on (phr v) /muːv ɒn/ to stop doing or talking about one thing and start doing sth else • After a short introduction, the scientist moved on to describe his theory.	3.104	wear out (phr v) /weə aʊt/ to be used so much that it becomes useless  ■ These shoes have worn out and there are holes in them. ❖	
3.93	politely (adv) /pəˈlaɪtli/ in a way that shows you have good manners and respect for others ● The young man asked me politely to sit down and then he offered me some coffee. ➤ polite (adj), politeness (n)  •	3.105	sunlight (n) /'sʌnlaɪt/ the light from the sun ● The sunlight shone through the bedroom window and woke me up. >> sunlit (adj) ❖	
		3.106	inventor (n) /ɪnˈventə(r)/ sb who creates sth new ● George Stephenson was the inventor of the steam engine.  > invent (v), inventive (adj) ❖	
VOC	cabulary Page 36  destroy (v) /dɪs'trɔɪ/	3.107	device (n) /dr'vaɪs/ an object that is used for a particular purpose • A GPS unit is a useful device for taxi drivers as	
	to ruin • Sadly, we are destroying the environment and many species are disappearing. ➤ destruction (n), destructive (adj)	3.108	thelps them to find addresses. ❖  decade (n) /'dekeɪd/ ten years ● He has been a member of Greenpeace for more than a decade.  ❖	
3.95	prevent (v) /prr'vent/ to stop sb from doing sth; to stop sth from happening • We need to prevent accidents from happening. ➤ prevention (n),	3.109	bottom (n) /'bɒtəm/ the lowest part of sth ● They found the Titanic at the bottom of the sea. ❖	
3.96	remove (v) /rɪˈmuːv/ to take away ● Terry removed the little fish from the net and put it back into the sea.	3.110	pond (n) /pɒnd/ a small area of water, sometimes man-made  • There are frogs and goldfish in the pond in our garden. ❖	
3.97	> removal (n) ❖ set up (phr v) /set ∧p/ create, start • Let's set up a café that provides	3.111	bacteria (n pl) /bæk'tɪəriə/ the simplest and smallest forms of life ● Your hands are dirty and full of bacteria. You must wash them. ❖	
3.98	cheaper tea and coffee for the elderly.    survive (v) /səˈvaɪv/  to manage to stay alive • We hope that many coral reefs will survive pollution. ➤ survival,	3.112	pollution (n) /pəˈluːʃn/ making sth dirty with gas or poisonous chemicals • Cars are a major factor in pollution all over the world. ➤ pollute (v), polluted (adj) ❖	
3.99	damage (v) /ˈdæmɪdʒ/ to harm or spoil sb/sth ● <i>I dropped my laptop</i> yesterday but fortunately <i>I didn't damage it.</i> ➤ damage (n) ❖	3.113	daily (adj) /ˈdeɪli/ of every day ● Can you describe your daily routine? > day (n) ❖ ⊗ Syn: everyday	
3.100	exist (v) /ɪgˈzɪst/ to be real; to be alive ● Some people still believe the Loch Ness monster really exists.  > existence (n) ❖	Grammar Page 37		
3.101	garbage (n) /ˈgɑːbɪdʒ/ rubbish or waste food that you throw away (US Eng) • Please throw the garbage in the	3.114	whale (n) /weɪl/ a very big mammal, that lives in the sea ● We stood on the top of the cliff to watch the whales swimming in the ocean. ❖	
3.102	bin. ❖  Syn: rubbish (Br Eng)  patch (n) /pætʃ/ an area that is different from the area around it  I grow my own flowers in a small patch in the garden. ❖	3.115	instrument (n) /'Instrəmənt/ an object used for producing musical sounds, for example a piano ● She's a wonderful musician and plays several musical instruments: the violin, the guitar and the clarinet. ➤ instrumental (adj)	
3.103	biodegradable (adj) /ˌbaɪəʊdɪˈgreɪdəbl/ able to be changed into a natural state that won't damage the environment ● She only uses cleaning products that are biodegradable.  > biodegrade (v) ❖  © Opp: non-biodegradable	3.116	mountain range (n) / mauntain reindʒ/ a group of mountains • The Andes are the world's longest mountain range: 7,000 kilometres long. ❖	

3.117	underwater (adj) /,\ndə'wɔːtə(r)/ found or happening below the surface of water	Geog	Geographical features			
	They filmed the fish using an underwater camera. ➤ underwater (adv) ❖	cave cliff		glacier Great Barrier	pond rainforest	
3.118	appear (v) /ə¹pɪə(r/ to start to be seen ● As she got older, more and more white hairs appeared. ➤ appearance (n)  ❖ ⑤ Opp: disappear	coast coral i desert		Reef iceberg mountain range	stream valley waterfall	
3.119	waterfall (n) /'wɔːtəfɔːl/ water from a river falling over a cliff or high rock ● We can't go any further down this river because there is a waterfall a hundred metres away. ❖	Wr	iting	Pages 38–39		
3.120	location (n) /ləʊˈkeɪʃn/ a place where sth is situated ● The location of our new house is beautiful because it's near the beach. ➤ locate (v) ❖	There are many expressions with the verb <b>keep</b> . keep in touch, keep a secret, keep a diary, keep one's word				
3.121	the outside world (phr) /ðiː ˈaʊtsaɪd wɜːld/ the rest of the world • Some areas of the rainforest in Brazil haven't been visited by anybody from the outside world.	3.131	to talk or Canada k	ouch (phr) /kiːp ɪn write to sb ● <i>Willia</i> out he keeps in tou	m moved to	
3.122	land (v) /lænd/ to arrive on the ground • The plane landed at the airport during a rainstorm. ➤ landing (n)	3.132	with you	d because a persoi	gland last year and I	
3.123	wheel (n) /wi:l/ one of the round things under a vehicle like a car that turns when it moves • One of	3.133		er to put rubbish in tles and jars in the	-	
3.124	the wheels on my bike was damaged in the accident. ❖  get stuck (phr) /get st∧k/ to become unable to move • The car got	3.134	not new; can buy s	nand (adj) /'sekənd owned by sb else   second-hand clothe	before you ● You	
3.125	stuck in the sand and we had to pull it out.	3.135	supplier a person	(n) /sə'plaɪə(r)/ or company that s	ells sth • They are	
3.125	mud (n) /mʌd/ wet earth ● <i>It was raining so I got mud on my</i> boots. ➤ muddy (adj) ❖	3.136		e biggest computer supply (v, n) �		
3.126	name after (phr v) /neɪm ˈɑːftə(r)/ give sb another person's name ● I'm Victoria. I was named after my grandmother, who was also called Victoria. ❖	0.100	to use str	n again, sometimes  We reuse glass j  food in the kitchen.	ars to store	
3.127	sadly (adv) /'sædli/ unfortunately ● Sadly, my great-grandmother died two years ago. ➤ sad (adj), sadness (n) ❖	3.137		A lot of waste can ple, cans and pape	•	
3.128	hurt (v) /h₃:t/ to cause pain to a person or animal • It's terrible when people hurt animals and cause them pain. ❖	3.138	material I boxes for	rd (n) /ˈkɑːdbɔːd/ ike thick paper, oft packaging ● Thes ed cardboard. ➤ ca	se boxes are made	
3.129	injury (n) /ɪndʒəri/ damage to part of a person's or an animal's body caused by an accident or attack ● He had a car accident, but luckily his injuries weren't serious. ➤ injure (v) ❖	3.139	an organi people in that helps	n) /'tʃærəti/ isation that raises i need • She gives s sick children. > c	money to a charity	
3.130	lift (v) /lɪft/ to raise from the ground ● The helicopter lifted survivors from the sea. ➤ lift (n) ❖		*			

## Live well, study well

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3.140	suggest (v) /sə'dʒest/ to say sth that gives sb an idea about what to do • I suggest we start a clean-up group.  ➤ suggestion (n) ❖
3.141	per cent (n) /pə 'sent/ one part in every hundred; % ● The price of fuel went up ten per cent last year. ❖
3.142	whether (conj) /ˈweðə(r)/ if (or if not) ● I don't know whether solar energy is cheaper than wind energy. ❖
3.143	break down (phr v) /breɪk daʊn/ to separate into parts or change into another form ● Paper will break down easily so it can be reused. ❖
3.144	successfully (adv) /sək'sesfəli/ in a way that achieves what you want  • She successfully runs a business while looking after her two children. ➤ success (n) successful (adj) ❖

3.145	fail (v) /feɪl/ to not succeed ● Well-trained dogs rarely fail to follow instructions. ➤ failure (n) ❖
3.146	goal (n) /gəʊl/ sth that you hope to achieve ● Her goal is to win the chess championship next year. ❖ ◎ Syn: aim
3.147	relative (n) /'relətɪv/ a person who is in the same family as sb else • I love all my relatives, but my Aunt Carol and Uncle Ed are my favourites. *
3.148	give up (phr v) /gɪv ʌp/ stop trying ● After a week of searching, the rescue team gave up and stopped looking for survivors. ❖
3.149	benefit (n) /'benɪfɪt/ an advantage ● Olive oil has many benefits, including being good for your heart. >> benefit (v), beneficial (adj) ❖

#### **Phrasal verbs**

break down go up run out (of)
clean up make up set up
find out move on
give up name after