

8

Environmental Affairs

- page 95**
- 8.1** **affair** (n) /ə'feə/
a situation or subject that is being considered
• *You shouldn't ask so many questions about other people's affairs!*

Reading

- page 96**
- 8.2** **power** (v) /'paʊə/
supply power to a vehicle or machine • *This car is powered by a special engine.* > power (n), powerful (adj)
- 8.3** **tornado** (n) /tɔ:'neɪdəʊ/
a violent windstorm which rotates very fast
• *The spinning tornado destroyed all the houses along the street.*
- 8.4** **spin** (v) /spɪn/
turn round quickly • *The dancer was spinning in circles.*

Word Focus page 96

- 8.5** **rotation** (n) /rəʊ'teɪʃn/
going round in a circle • *Night and day are a result of Earth's rotation.* > rotate (v)
- 8.6** **gust** (n) /gʌst/
a sudden strong movement of wind or rain
• *Strong gusts of wind made it hard to walk along the seafront.*

Reading

- pages 96–97**
- 8.7** **carve** (v) /kɑ:v/
cut into • *Rivers carve rock over millions of years and create valleys.* > carving (n)
- 8.8** **whip up** (phr v) /wɪp ʌp/
create; cause • *The teacher whipped up enthusiasm for the excursion by telling the students they would see some interesting things.*
- 8.9** **tear** (v) /teə/
go very fast • *The dog tore across the park after the ball.*
- 8.10** **airborne** (adj) /'eəbɔ:n/
in the air • *When the plane was airborne, we could see the land below.*
- 8.11** **unevenly** (adv) /ʌn'i:vənli/
not regularly • *The food was heated unevenly in the microwave oven, so some of it was hot and some cold.* > uneven (adj)
- 8.12** **breezy** (adj) /bri:zi/
a little windy • *It was a breezy day—perfect for flying a kite.* > breeze (n)

- 8.13** **hoist** (v) /hɔɪst/
pull sth heavy up, eg sails • *They hoisted the sails when it got breezy and the yacht moved smoothly over the water.*
- 8.14** **pattern** (n) /'pætən/
the regular way in which sth happens or is done
• *Meteorologists study weather patterns in order to forecast future weather.*
- 8.15** **Equator** (n) /ɪ'kwetə/
an imaginary line around the middle of the Earth
• *Greece lies north of the Equator in the northern hemisphere.* > equatorial (adj)
- 8.16** **harness** (v) /'hɑ:nɪs/
control and use the power of sth • *We can harness the wind to generate electricity.* > harness (n)
- 8.17** **crop** (n) /krɒp/
a kind of plant grown on a farm for eating
• *This farm's main crop is potatoes.*
- 8.18** **steel** (n) /sti:l/
a strong metal often used in buildings and bridges
• *These knives are made of steel.*
- 8.19** **storey** (n) /stɔ:ri/
a floor or level of a building • *I live on the third floor of a block of flats.*
- 8.20** **top (with)** (v) /tɒp (wɪð)/
put on the top • *This building is topped with a roof garden.*
- 8.21** **blade** (n) /bleɪd/
a flat piece of metal or wood on a windmill
• *The blades of the windmill turned slowly in the breeze.*
- 8.22** **generator** (n) /'dʒenəreɪtə/
a machine that produces electricity • *Hospitals have generators which can produce electricity if there is a blackout.* > generate (v)
- 8.23** **account for** (phr v) /ə'kaʊnt fɔ:/
be the reason for sth • *The high temperatures and heavy rain account for the thick vegetation in this area.*
- 8.24** **tube** (n) /tju:b/
a hollow cylinder • *Please buy me a tube of toothpaste from the supermarket.*
- 8.25** **upright** (adj) /'ʌpraɪt/
standing up • *After being ill in bed for so long, it was difficult for him to stand upright.*
- 8.26** **hurricane** (n) /'hʌrɪkən/
a strong storm • *Hurricanes can destroy large coastal areas if they reach the shore.*
- 8.27** **mass** (n) /mæs/
a large amount of sth • *A mass of dark clouds started to gather in the sky before the storm.*

- 8.28 moist** (adj) /mɔɪst/
slightly wet • *We could tell it was going to rain soon because of the moist air.* > moisture (n)
- 8.29 uproot** (v) /ˌʌpˈruːt/
pull a tree, plant, etc out of the ground • *The storm uprooted several large trees.*
- 8.30 strike** (v) /straɪk/
hit sb or sth • *She fell and struck her head on the table.*
- 8.31 lightning** (n) /ˈlaɪtnɪŋ/
a sudden bright light in the sky during a storm
• *The tree was struck by lightning.*

Weather words

| | |
|-----------|--------------|
| tornado | breezy |
| twister | thunderstorm |
| hurricane | gust |

Vocabulary

page 98

- 8.32 torrential** (adj) /təˈrenʃl/
very heavy (rain) • *The torrential rain caused the rivers to flood.* > torrent (n)
- 8.33 rainfall** (n) /ˈreɪnfɔːl/
the amount of rain that falls on an area in a particular period of time • *The crops are dying in the fields because of the very low rainfall.*
- 8.34 moisture** (n) /ˈmɔɪstʃə/
small amounts of water in the air, a substance, etc
• *There is always a lot of moisture in the air in the mornings.* > moist (adj)
- 8.35 coastal** (adj) /ˈkəʊstl/
next to the sea • *We live in a coastal area near a fishing village.* > coast (n)
- 8.36 ecosystem** (n) /ˈiːkəʊsɪstəm/
all the plants and animals that live in the same place and their relationship • *The ecosystem of this lake has been destroyed by pollution.*
- 8.37 evaporation** (n) /ɪˌvæpəˈreɪʃn/
when a liquid changes into a gas • *The simplest method of getting salt is through the evaporation of salt water.* > evaporate (v)
- 8.38 natural resource** (n) /ˈnætʃrəl rɪˈzɔːs/
things like coal, oil, water, trees, etc that can be used by people • *Our way of life depends on natural resources like oil and natural gas.*
- 8.39 draught** (n) /draʊft/
a cold current of air • *Please close the door as there is a draught in the room.* > draughty (adj)
- 8.40 drought** (n) /draʊt/
a long period of time without rain • *The crops all died because of the drought.*
- 8.41 gradual** (adj) /ˈgrædʒʊəl/
happening slowly over a period of time • *The gradual increase in temperatures on Earth will change our climate.*
- 8.42 emission** (n) /ɪˈmɪʃn/
the act of sending out light, heat, gas etc
• *The emission of fumes from cars causes a lot of pollution.* > emit (v)
- 8.43 omission** (n) /əˈmɪʃn/
when you do not include or do not do sth
• *The omission of the conclusion in your essay makes it incomplete.* > omit (v)
- 8.44 trap** (v) /træp/
prevent sth from getting away • *Smoke was trapped in the room and we couldn't open the window to let it out.* > trap (n)
- 8.45 carbon dioxide** (n) /ˈkɑːbən daɪˈɒksaɪd/
a kind of gas • *We breathe in oxygen and breathe out carbon dioxide.*
- 8.46 methane** (n) /ˈmiːθeɪn/
a gas often used as fuel • *Natural gas consists mainly of methane.*
- 8.47 greenhouse gas** (n) /ˈɡriːnhaʊs ɡæs/
a gas that traps heat and causes the greenhouse effect • *Carbon dioxide is the main greenhouse gas and its emissions are increasing.*
- 8.48 fumes** (pl n) /fjuːmz/
unpleasant smoke • *The fumes from the old car smelt horrible.*
- 8.49 blanket** (n) /ˈblæŋkɪt/
a thick covering of sth • *When we woke up, there was a blanket of snow on the ground.*
- 8.50 remains** (pl n) /rɪˈmeɪnz/
the body of a person or animal after it has died
• *The remains of animals were excavated at the site.*
- 8.51 oil** (n) /ɔɪl/
the thick liquid found underground from which petrol is produced • *People drill for oil in the desert and under the sea.*
- 8.52 natural gas** (n) /ˈnætʃrəl ɡæs/
gas found underground • *Natural gas is used to heat many houses.*
- 8.53 coal** (n) /kəʊl/
black solid rock found underground and burnt as fuel • *They put more coal on the fire because they were freezing.*
- 8.54 renewable** (adj) /rɪˈnjuːəbl/
that will never run out • *Wind power is renewable energy.* > renew (v)
- 8.55 usable** (adj) /ˈjuːsəbl/
that can be used • *Those batteries aren't usable. They're dead.* > use (v)
- 8.56 conserve** (v) /kənˈsɜːv/
use as little water, energy etc as possible so as not to waste it • *We need to conserve water because there is not enough of it.*
> conservation, conservationist (n)
- 8.57 consume** (v) /kənˈsjuːm/
use up • *If we consume all the fossil fuels, we will have to find alternative sources of energy.*
> consumption (n)

- 8.58 crude oil** (n) /kruːd ɔɪl/
oil in its natural state • *Crude oil cannot be used for fuel. It has to be refined first.*
- 8.59 raw** (adj) /rɔː/
uncooked • *Do you like raw fish or do you prefer it cooked?*
- 8.60 deforestation** (n) /ˌdiːfɒrɪs'teɪʃn/
destruction of the forests • *The deforestation of the Amazon will be a disaster for the whole world.*
- 8.61 erosion** (n) /ɪ'rəʊʒn/
the process by which rock or soil is gradually destroyed by wind or water • *The erosion of the hillsides means that trees can't grow there any more.*
➢ erode (n)
- 8.62 current** (n) /'kʌrənt/
a continuous movement of water in the sea or a river • *A strong current swept the swimmer far from the shore.*
- 8.63 delta** (n) /'deltə/
an area of land near the sea where a river splits into many smaller rivers • *A lot of water birds live in the river delta.*
- 8.64 downpour** (n) /'daʊnpɔː/
heavy rainfall • *We got completely soaked in the downpour.*
- 8.65 habitat** (n) /'hæbɪtæt/
the natural place where an animal or plant lives • *This spider's natural habitat is the desert.*
- 8.66 soaking wet** (expr) /'səʊkɪŋ wet/
completely wet • *I didn't have an umbrella, so I arrived home soaking wet.*
- 8.67 grassy** (adj) /'grɑːsi/
covered with grass • *They cycled down a grassy hillside.* ➢ grass (n)
- 8.68 sweep** (v) /swiːp/
force sb or sth to move in a particular direction • *The little boat was swept out to sea in the storm.*
- 8.69 flow** (v) /fləʊ/
move continuously • *The river flowed out to sea.*
➢ flow (n)
- 8.70 irrigation** (n) /ɪrɪ'geɪʃn/
supply land or crops with water • *Proper irrigation is essential as crops need water to grow.*
➢ irrigate (v)

Phrasal verbs

| | |
|-------------|-----------|
| account for | turn into |
| block out | wear away |
| blow over | whip up |
| breathe out | wipe out |
| freeze over | |

Environmental problems

| | |
|----------------|---------------|
| global warming | deforestation |
| drought | erosion |
| fumes | radiation |
| greenhouse gas | |

Grammar

page 99

- 8.71 reactor** (n) /rɪ'æktə(r)/
a large machine used for producing nuclear energy • *The Chernobyl reactor exploded in 1986.*
- 8.72 species** (n) /'spiːʃiːz/
a group of animals or plants that are the same and can produce young animals or plants together • *There are over 400 species of shark.*
📎 Plural: species
- 8.73 recycled** (adj) /rɪ'saɪkld/
used again • *This book is made from recycled paper.*
➢ recycling (n), recycle (v)
- 8.74 turn into** (phr v) /tɜːn 'ɪntə/
become sth different or make sb or sth do this • *In six months, the little puppy turned into a big, scary dog.*
- 8.75 reduce** (v) /rɪ'djuːs/
make sth smaller or less • *They reduced the price of the T-shirt from £20 to £15.* ➢ reduction (n)
- 8.76 fancy** (adj) /'fænsi/
expensive and fashionable • *Mia took us to a fancy restaurant on her birthday.*
- 8.77 explosion** (n) /ɪks'pləʊʒn/
a blast of energy (often from a bomb) • *There was a loud explosion when the gas heater blew up.* ➢ explode (v), explosive (n, adj)
- 8.78 humid** (adj) /'hjuːmɪd/
wet; damp • *The day was hot and humid and in the evening it rained heavily.* ➢ humidity (n)
- 8.79 restricted** (adj) /rɪ'strɪktɪd '
If sth is restricted, it can only be used by people with special permission because it is secret or dangerous. • *This is a restricted area – you can't enter.* ➢ restrict (v), restriction (n)
- 8.80 billionaire** (n) /'bɪljə,neə/
sb who has a billion dollars, pounds or euros in money • *The richest people in the world are billionaires.* ➢ billion (n)
- 8.81 shellfish** (n) /'ʃel,ʃɪʃ/
an edible sea creature with a shell • *I love eating shellfish, especially prawns and mussels.*
- 8.82 nasty** (adj) /'nɑːsti/
painful, dangerous or serious • *He had a nasty cut on his foot.*
- 8.83 rash** (n) /ræʃ/
red inflammation on the skin • *His skin was red and the doctor said it was an allergic rash.*

Rubbish

scrap
recycled

recycling bin
household waste

Listening

page 100

- 8.84** **admit** (v) /əd'mɪt/
agree that you did sth bad or that sth bad is true
• *The meteorologist admitted that they had not forecast the weather correctly.*
- 8.85** **complain** (v) /kəm'pleɪn/
say you are not happy about sth • *We complained that there was no heating in the hotel.* > complaint (n)
- 8.86** **enquire** (v) /ɪn'kwaɪə/
ask • *We enquired at the station about train times.*
> enquiry (n)
- 8.87** **inform** (v) /ɪn'fɔ:m/
tell sb sth • *Our teacher informed us that she would be giving us a test.* > information (n)
- 8.88** **predict** (v) /prɪ'dɪkt/
say what will happen in the future • *Meteorologists predict that the weather will be fine this weekend.*
> prediction (n), predictable (adj)
- 8.89** **seek permission** (expr) /si:k pə'mɪʃn/
ask to do sth • *You will have to seek permission from the city council if you want to hold a concert in the square.*
- 8.90** **recycling bin** (n) /ri:'saɪklɪŋ bɪn/
a container for materials that can be recycled, such as glass, paper and aluminium • *I take my empty glass bottles to the recycling bin outside the supermarket.*
- 8.91** **genetically modified food** (expr) /dʒə'netɪkli 'mɒdɪfaɪd fu:ɪd/
food that has had its DNA changed by genetic engineering • *Do you think genetically modified food might affect our health?*
- 8.92** **organic** (adj) /ɔ:'gænɪk/
grown without chemicals • *Organic food is supposed to be good for your health.* > organically (adv)
- 8.93** **stuff** (n) /stʌf/
used to talk about a substance, material, group of objects, etc when you do not know what they are called or when the name is not important • *What's that black stuff on your shirt?*
- 8.94** **photovoltaic panel** (n) /fəʊtəʊvɒl'teɪk 'pænəl/
a panel which makes electricity from the sun
• *Photovoltaic panels on your roof can power your home.*
- 8.95** **discourage** (v) /dɪs'kʌrɪdʒ/
make sb lose confidence or enthusiasm about sth • *The terrible weather discouraged us from going to the beach for the day.*
> discouragement (n) 📝 Opp: encourage

- 8.96** **prohibit** (v) /prə'hɪbɪt/
say that an action is illegal or not allowed
• *Swimming is prohibited here. There are sharks in the water.*
- 8.97** **express doubt** (expr) /ɪks'pres daʊt/
say you are not sure about sth • *He expressed doubt about the weather forecast for rain as the sun was shining in the sky.*
- 8.98** **criticise** (v) /'krɪtɪsaɪz/
point out the negative things about sb or sth
• *The boss criticised his employees for not writing thorough reports.* > criticism (n), critical (adj)
- 8.99** **environmentally-friendly** (adj) /ɪn,vəɪərə'mentəli-'frendli/
things that are environmentally friendly do not harm the environment • *Environmentally-friendly packaging which can be recycled is used in many supermarkets nowadays.*

Speaking

page 101

- 8.100** **plot** (n) /plɒt/
a small piece of land used for building or growing things on • *I made this salad with tomatoes from my own vegetable plot.*

Grammar

page 102

- 8.101** **litter** (v) /'lɪtə(r)/
drop rubbish on the ground in a public place
• *There was a sign on the beach that said 'Please do not litter.'*
- 8.102** **endangered** (adj) /ɪn'deɪndʒəd/
that may soon no longer exist • *The giant panda is an endangered species.*
- 8.103** **extinct** (adj) /ɪk'stɪŋkt/
no longer alive • *Dinosaurs became extinct about 65 million years ago.* > extinction (n)
- 8.104** **household waste** (n) /'haʊshəʊld weɪst/
rubbish from sb's house • *Household waste can be divided into regular rubbish and material for recycling.*
- 8.105** **acid rain** (n) /'æsɪd reɪn/
polluted rain • *The pollution from the factory rose into the clouds and then created acid rain which destroyed the forests.*
- 8.106** **torrential** (adj) /tə'renʃl/
very heavy (rain) • *The torrential rain caused the rivers to flood.* > torrent (n)

Use your English page 103

- 8.107** **block out** (phr v) /blɒk aʊt/
stop light from coming in • *She shaded her eyes to try to block out the bright sun.*
- 8.108** **blow over** (phr v) /bləʊ 'əʊvə/
go away without serious effect • *The storm soon blew over and the sun came out again.*

- 8.109 burst into flames** (expr) /bɜːst 'ɪntə fleɪmz/
suddenly start to burn with large flames
• *The plane crashed and burst into flames.*
- 8.110 freeze over** (phr v) /friːz 'əʊvə/
when the surface of water turns to ice
• *Last winter the pond in our garden froze over.*
- 8.111 wear away** (phr v) /weə ə'weɪ/
become gradually smaller and smoother
• *The cliffs have been worn away by the sea.*
- 8.112 wipe out** (phr v) /waɪp aʊt/
destroy completely • *Many species have been wiped out by hunters.*
- 8.113 smooth** (adj) /smuːð/
without sudden movements or changes
• *The plane made a smooth landing.*
- 8.114 catch fire** (expr) /kætʃ faɪə/
start to burn • *The wooden house caught fire when it was struck by lightning.*
- 8.115 patch** (n) /pætʃ/
a small area • *There were patches of dry grass on the football pitch.*
- 8.116 pessimistic** (adj) /pesɪ'mɪstɪk/
believing bad things will happen • *He is pessimistic about the future of the planet and says people will destroy it.* > pessimism (n)
📖 Opp: optimistic
- 8.117 keen** (adj) /kiːn/
liking or interested in sth • *She is keen on geography and hopes to study it at university.*
- 8.118 weaken** (v) /'wiːkən/
lose strength • *Luckily the hurricane weakened before it reached the coast.* > weakness (n), weak (adj) 📖 Opp: strengthen
- 8.119 large-scale** (adj) /'lɑːdʒ skeɪl/
using or involving a lot of people, things, effort, etc • *After a large-scale investigation, 197 people were arrested.*
- 8.120 meteorological** (adj) /miːtɪərə'lɒdʒɪkəl/
to do with the weather • *Meteorological studies help us to understand weather patterns.* > meteorology, meteorologist (n)

Useful verbs

| | |
|------------|----------|
| admit | enquire |
| complain | inform |
| criticise | predict |
| discourage | prohibit |

Writing: an essay (2) pages 104–105

- 8.121 destination** (n) /,destɪ'neɪʃn/
the place where sb or sth is going • *After a twelve-hour drive, we reached our destination.*

- 8.122 dump** (v) /dʌmp/
get rid of sth that you do not want
• *They dumped their old car near the beach.*
- 8.123 unpleasant** (adj) /ʌn'pleznt/
not nice or enjoyable • *Seeing her was an unpleasant surprise.*
- 8.124 exhaust fumes** (pl n) /ɪg'zɔːst fjuːmz/
gases produced when an engine is working
• *Exhaust fumes from cars are responsible for the pollution.*

Video: Global Warming

page 106

- 8.125 global warming** (n) /'glɒʊbl 'wɔːmɪŋ/
the rise in the Earth's temperature • *Global warming will cause the ice caps to melt and sea levels to rise.*
- 8.126 greenhouse effect** (n) /'ɡriːnhaʊs ɪ'fekt/
the gradual rise in the Earth's temperature caused by high levels of gases in the atmosphere
• *The greenhouse effect is making the ice caps melt and sea levels rise.*
- 8.127 power plant** (n) /'paʊə plɑːnt/
a building or group of buildings where electricity is produced • *The blackout was due to a fire at the power plant.* 📖 Syn: power station
- 8.128 breathe out** (phr v) /briːð aʊt/
let air out of your lungs • *When the danger passed, she breathed out in relief.* 📖 Opp: breathe in
- 8.129 chemical reaction** (n) /'kemɪkl rɪ'ækʃn/
a chemical change produced when two or more substances are mixed • *A chemical reaction causes the liquid to change colour.*
- 8.130 melt** (v) /melt/
If heat melts sth, it becomes liquid. • *The child's ice cream melted in the hot sun.*
- 8.131 shrink** (v) /ʃrɪŋk/
become smaller • *If you wash that woollen pullover in hot water, it will shrink.*
- 8.132 Industrial Revolution** (n) /ɪn'dʌstriəl rev'luːʃn/
the period in the eighteenth and nineteenth centuries when many machines were invented and the first factories were built • *Trains became a common form of transport thanks to the Industrial Revolution.*
- 8.133 decrease** (v) /dɪ'kriːs/
become or make sth smaller or less • *The price of oil decreased by 2% last year.* > decrease (n)
📖 Opp: increase
- 8.134 slight** (adj) /slaɪt/
small; not important or serious • *I'm afraid we've got a slight problem.*
- 8.135 floe** (n) /fləʊ/
an area of ice floating in the sea • *From their ship, they saw a group of penguins on a floe.*