

9

High-Tech World

Word Focus

page 110

- 9.1 surveillance** (n) /sə'veɪləns/
when sb like the police watch a person or place because they think sth illegal may happen • *There is surveillance in most shops nowadays, so anything that happens can be seen on camera.*
- 9.2 guilty** (adj) /'gɪlti/
responsible for doing sth illegal or bad • *Of course he's guilty. I know he stole the money.* > guiltily (adv), guilt (n)
- 9.3 crime** (n) /kraɪm/
an illegal act • *If you commit a crime and get caught, you will go to prison.* > criminal (n)
- 9.4 lose consciousness** (expr) /luːz 'kɒnʃəsnəs/
go into a deep sleep because of injury or illness so that you do not understand what is happening around you • *When Tim hit his head really hard and lost consciousness, we took him to hospital.*
- 9.5 set off** (phr v) /set ɒf/
make an alarm ring • *The fire set off the smoke alarm in the house.*
- 9.6 alarm** (n) /ə'lɑːm/
a loud noise that warns people that there is a danger or a problem • *We heard the car alarm and ran outside.* > alarm (v), alarmed (adj), alarming (adj)

- 9.13 novel** (n) /'nɒvl/
a long story in a book • *Tom Sawyer is my favourite novel.* > novelist (n)
- 9.14 publish** (v) /'pʌblɪʃ/
produce a book or magazine and sell it • *J.K. Rowling couldn't find anyone to publish the first Harry Potter book.* > publisher (n)
- 9.15 stadium** (n) /'steɪdiəm/
a sports ground surrounded by many seats • *The stadium was full of fans waiting for the match to begin.*
- 9.16 commit a crime** (expr) /kə'mɪt ə kraɪm/
do sth illegal • *A crime was committed at the bank this morning and thousands of euros were stolen.*
- 9.17 murder** (n) /'mɜːdə/
the crime of killing sb • *Murder is a terrible crime.* > murder (v), murderer (n)
- 9.18 case** (n) /keɪs/
a crime that is being investigated by the police • *The police are investigating a murder case at the moment.*
- 9.19 actually** (adv) /'æktʃuəli/
used to emphasise a fact • *I actually fell asleep in the lesson because I was so tired.* > actual (adj)
- 9.20 put up sth** (phr v) /pʊt ʌp 'sʌmθɪŋ/
fix sth in a place so that people can see it • *I'm going to put up this ad on the class notice board.*
- 9.21 in operation** (phr) /ɪn ɔpə'reɪʃn/
working • *The machine is still in operation. Can't you hear it?*
- 9.22 sign** (n) /saɪn/
a piece of paper, metal or wood with information on it • *We had to stop the car because there was a stop sign at the end of the road.*
- 9.23 lifeguard** (n) /'laɪfgɑːd/
sb who works at a beach or swimming pool and rescues people • *The lifeguard saw that a boy was in trouble in the pool and dived in to rescue him.*
- 9.24 drown** (v) /draʊn/
die because you have been underwater for too long and can't breathe • *People who can't swim should wear a lifejacket so they don't drown if they fall in the water.*
- 9.25 notice** (v) /'nəʊtɪs/
see or hear sb/sth • *He came into the room so quietly that nobody noticed him.* > notice (n), noticeable (adj)

Reading

pages 110-111

- 9.7 device** (n) /dɪ'vaɪs/
an object that is used for a particular purpose • *A satnav is a useful device for taxi drivers as it helps them to find addresses.*
- 9.8 spy on** (phr v) /spaɪ ɒn/
watch secretly • *In the war, enemies spied on each other to try to find out information that could help them win.* > spy (n)
- 9.9 GPS** (n) /dʒiː piː es/
global positioning system • *We didn't get lost on holiday because our GPS told us where we were.*
- 9.10 criminal** (n) /'krɪmɪnəl/
sb who breaks the law • *The police are looking for two criminals who have robbed five banks in the area.* > crime (n)
- 9.11 detect** (v) /dɪ'tekt/
find, discover • *The police can detect people who drive dangerously by reading their number plates on surveillance cameras.* > detection, detective (n)
- 9.12 wiper** (n) /'waɪpə/
a blade with a rubber edge that removes rain or snow from a screen or window • *A car needs windscreen wipers or the driver can't see outside when it is raining.* > wipe (v)

- 9.26 put in sth** (phr v) /pʊt ɪn 'sʌmθɪŋ/
fix sth like equipment into position • *We need to put in the fire alarm we bought.* 📖 Syn: install
- 9.27 concerned** (adj) /kən'sɜːnd/
worried about sb/sth • *Her parents are concerned because she is not doing well at school.* > concern (n)
- 9.28 lawyer** (n) /'lɔːjə/
sb whose job is to advise people about the law, to write legal documents and to represent people in court • *You should ask your lawyer for advice; she'll tell you what the law says about your problem.* > law (n)
- 9.29 increase** (n) /'ɪŋkriːs/
a rise in number, amount or value • *There has been an increase in crime in this area.* > increase (v), increasing (adj), increasingly (adv)
- 9.30 vote** (v) /vəʊt/
mark a paper or raise your hand to choose sb for an official position • *Do you think people will vote for her as president?* > vote, voter (n)
- 9.31 content** (n) /'kɒntent/
the subject matter or information in a book, programme, etc. • *I must study the content of this paragraph because I don't really understand it.* > contents (pl n), contain (v)
- 9.32 work out** (phr v) /wɜːk aʊt/
find the answer to sth • *I didn't use a dictionary. I worked out the meaning of the word from the sentence.*
- 9.33 stick** (n) /stɪk/
a thin piece of wood from a tree • *She used a long stick to knock the apple down from the tree.*

Crime

case	guilty
CCTV	lawyer
commit a crime	murder
criminal	poaching
detect	surveillance

Vocabulary

page 112

- 9.34 battery** (n) /'bætəri/
sth inside an engine, a radio, an MP3 player, etc. that produces electricity to make it work • *My watch has stopped. It needs a new battery.*
- 9.35 tablet** (n) /'tæblət/
a thin computer with a touch screen • *Tablets are easier to carry around than laptops.*
- 9.36 satnav** (n) /'sætnæv/
a computer that uses information from satellites to show or tell a driver of a vehicle how to get to a place • *You won't get lost if you get a satnav for your car.* 📖 Also: 'Satnav' is an abbreviation for 'satellite navigation'.
- 9.37 microchip** (n) /'maɪkrəʊtʃɪp/
a tiny piece of silicon with electronic parts that is used in computers • *The invention of the microchip started the age of personal computers.*
- 9.38 remote control** (n) /rɪ'məʊt kən'trəʊl/
an object that you use to control equipment without having to touch it • *Please change the channel with the remote control.*
- 9.39 USB stick** (n) /juː es biː stɪk/
a memory device that can connect to a computer • *I've put the photos on this USB stick so you can transfer them to your computer.*
- 9.40 install** (v) /ɪn'stɔːl/
fix equipment into position so that it can be used; put a new program into a computer • *The electrician came to install our new cooker.* > installation (n) 📖 Syn: put in
- 9.41 crash** (v) /kræʃ/
fail (for computers) • *His computer crashed and now he has lost all his work.* > crash (n)
- 9.42 log in** (phr v) /lɒg ɪn/
connect • *You can only log in to this bank's website with a secret password.* > login (n) 📖 Opp: log off
- 9.43 gadget** (n) /'gædʒɪt/
a small device that does sth useful • *USB sticks are great gadgets for transferring files easily from one computer to another.*
- 9.44 revolutionise** (v) /revə'ljuːʃənəɪz/
cause great change • *The Internet has revolutionised the way we communicate with people across the world.* > revolution (n), revolutionary (adj)
- 9.45 process** (v) /'prəʊses/
deal officially with a document • *They will process all the job applications and then decide who the best candidates are.* > process (n), processed (adj)
- 9.46 department** (n) /dɪ'pɑːtmənt/
a part of a large business, university, organisation, etc. • *My mum works in the Physics Department at the university.*
- 9.47 progress** (n) /'prəʊgres/
gradual improvement • *We hope progress will soon be made and a cure for this disease will be found.* > progress (v), progressive (adj)
- 9.48 lab** (n) /læb/
a room where scientific experiments are done • *In this lab, we do research on cancer.* 📖 NB: short form of the word *laboratory*
- 9.49 word processing** (n) /wɜːd 'prəʊsesɪŋ/
using a computer to create a text • *My dad uses his computer for word processing, not gaming.*
- 9.50 edit** (v) /'edɪt/
make changes to a text, an image, etc. • *I've written my essay, but now I need to edit it. It's too long.* > editor (n)

- 9.51 development** (n) /dɪ'veləpmənt/
improvement • *In the twenty-first century there have been amazing developments in technology.* > develop (v)
- 9.52 protest** (n) /'prəʊtest/
expressing strong disagreement with sth
• *I'm going to join a protest march against the supermarket they want to build near the river.*
> protest (v), protester (n)
- 9.53 experiment** (v) /ɪks'perɪmənt/
do a scientific test to find out if an idea is true
• *Some researchers experiment on animals to test new medicines.* > experiment, experimenter (n)
- 9.54 experiment** (n) /ɪks'perɪmənt/
a scientific test • *The experiment we did in chemistry at school didn't work.*
> experiment (v), experimenter (n)
- 9.55 password** (n) /'pɑ:swɜ:d/
a series of letters and/or numbers that you must type into a computer before you can use it • *Grandpa has forgotten his password and now he can't use his computer.*

Computer words

data	satnav
GPS	software
interactive	tablet
log in	USB stick
microchip	virus
password	word processing
program	

Grammar

page 113

- 9.56 smoke** (n) /sməʊk/
white, grey or black gas that is produced by sth burning • *There was so much smoke from the fire that we couldn't breathe.* > smoke (v)
- 9.57 show sb around** (phr v) /ʃəʊ 'sʌmbədi ə'raʊnd/
go around with sb to show them a place • *My aunt showed us around her new house.*
- 9.58 factory** (n) /'fæktri/
a building where things are made • *They make cars in this factory.*
- 9.59 virus** (n) /'vaɪrəs/
instructions that are put secretly into a computer program and that are designed to damage the computer and/or its data • *The computer virus destroyed all the data on his computer.* > viral (adj)
- 9.60 CCTV** (n) /,sɪ: sɪ: tɪ: 'vi:
a television system that is used to protect a place from crime • *The shop uses CCTV to prevent people from stealing.* ☞ 'CCTV' is an abbreviation for 'closed-circuit television'.

- 9.61 manufacturer** (n) /mænʃu'fæktʃərə/
a company that produces sth • *Fiat is an Italian car manufacturer.* > manufacture (v, n)
- 9.62 blood** (n) /blʌd/
the red liquid in the bodies of humans and animals • *When I cut my head, there was a lot of blood.* > bloody (adj)
- 9.63 sample** (n) /'sɑ:mpəl/
a small amount of sth that is examined to find out sth • *The doctor took a sample of my blood to find out what was wrong with me.*
> sample (v)
- 9.64 universe** (n) /'ju:nɪvɜ:s/
all of space • *Earth is just a small planet in an enormous universe.* > universal (adj)

Listening

page 114

- 9.65 laser** (n) /'leɪzə/
equipment that produces a powerful beam of light • *Light from a laser is very bright, so you shouldn't look at it.*
- 9.66 model** (n) /'mɒdl/
a small copy of sth • *There is a model of the Parthenon in the Acropolis museum.*
- 9.67 eco-friendly** (adj) /'i:kəʊ-'frendli/
not harmful to the environment • *Paper bags are more eco-friendly than plastic ones as they can be recycled.*
- 9.68 interactive** (adj) /,ɪntər'æktɪv/
an interactive computer program allows you to communicate with it and reacts to your actions • *I love interactive computer games.*
> interact (v), interaction (n)
- 9.69 participate** (v) /pɑ:'tɪsɪpeɪt/
take part • *John is a good student and likes to participate in class discussions.*
> participant (n)
- 9.70 try out** (phr v) /traɪ aʊt/
test • *Dad tried out the Toyota Aygo before deciding whether to buy one or not.*
- 9.71 attach** (v) /ə'tætʃ/
(1) join one thing to another; (2) connect a document or file to an email so you can send them together • *Don't forget to attach your new key to your key ring or you'll lose it.*
> attachment (n)
- 9.72 presentation** (n) /,prezn'teɪʃn/
showing a piece of work, a new idea, etc. to a group of people • *The teacher said my presentation was very interesting.*
> present (v)
- 9.73 solar-powered** (adj) /'səʊlə-'paʊəd/
working by using energy from the sun • *There are some amazing solar-powered cars.*
> solar power (n)

9.74 power (v) /'paʊə/
provide a machine with energy to make it work
• *The energy of the sun can be used to power this machine.* > power (n), powerful (adj), powerfully (adv)

9.75 green (adj) /gri:n/
connected with the protection of the environment • *People should use more green forms of energy.*

Speaking

page 115

9.76 on a daily basis (phr) /ʌn ə 'deɪli 'beɪsɪs/
done or happening every day • *The scientist checks the animals in the lab on a daily basis.*

9.77 headphones (pl n) /'hedfəʊnz/
equipment that you wear in or over your ears so that you can listen to music, the radio, etc.
• *Please use your headphones to listen to music late at night.*

9.78 air conditioning (n) /eə kən'dɪʃənɪŋ/
a system that cools the air in a building • *It's very hot today, so turn on the air conditioning.*
> air condition (v)

9.79 microwave oven (n) /'maɪkrəweɪv 'ʌvən/
a device that cooks food quickly using electromagnetic waves • *I put my supper in the microwave oven to heat it and in two minutes it was ready.*

9.80 security door (n) /sɪ'kjʊərɪti dɔː/
a strong door that locks well so nobody can break in • *It is safer to have a security door as there are so many burglaries these days.*

9.81 media centre (n) /'mi:diə 'sentə/
a library that has audiovisual media as well as books, magazines and other printed material
• *The library has a new media centre.*

Vocabulary

page 116

9.82 under threat (phr) /'ʌndə θret/
in danger • *Many bird and animal species are under threat because of the loss of natural habitats.*

9.83 look up sth (phr v) /lʊk ʌp 'sʌmθɪŋ/
look for information in a dictionary, book or the Internet • *You can look up a word in a dictionary if you don't understand it.*

9.84 expert (on) (n) /'ekspɜːt (ʌn)/
sb who has a lot of knowledge about sth
• *My cousin is an expert on computing and is studying IT at university.*

9.85 lead to (phr v) /li:d tuː/
cause • *Eating too much sugar and fat can lead to health problems.*

9.86 cyber tracker (n) /'saɪbə-'trækə/
sb who finds and follows animals using technology • *The cyber tracker took photos of the elephants to record their position.*

9.87 herd (n) /hɜːd/
a group of animals of the same type that live together • *There's a herd of cows in that field.*
> herd (v)

9.88 giraffe (n) /dʒɪ'ra:f/
an African animal with a very long neck and long legs • *The giraffe ate the leaves at the top of the tree.*

9.89 conservationist (n) /kɒnsə'veɪʃənɪst/
sb who wants to protect the environment
• *Conservationists organise activities for children to learn about the importance of protecting the natural environment.*
> conserve (v), conservation (n)

9.90 turn to sb (phr v) /tɜːn tə 'sʌmbədi/
go to sb for help, advice, etc. • *When I got into trouble, I turned to my best friend for help.*

9.91 animal tracker (n) /'ænɪml 'trækə/
sb who finds and follows animals • *The animal trackers found some footprints in the sand and followed them to a group of lions.*

9.92 software (n) /'sɒftweə/
computer programs • *Because she had some trouble with her computer, she had to reinstall all the software.*

9.93 observation (n) /əbʌsə'veɪʃn/
a comment based on sth that was seen, read or heard • *He wrote down his observations in a notebook and later typed them into his computer.* > observe (v), observer (n)

9.94 data (n) /'deɪtə/
information • *We put all the data in a document on the computer.*

9.95 poaching (n) /'pəʊtʃɪŋ/
hunting animals illegally • *The African elephant is in danger because of poaching.*
> poacher (n), poach (v)

9.96 issue (n) /'ɪʃuː/
an important topic • *Let's have a serious discussion about the issue of surveillance.*

9.97 independent (adj) /,ɪndɪ'pendənt/
able and free to do things without help from others • *Marcus is only fifteen, but he's very independent.* > independently (adv), independence (n) ☞ Opp: dependence

Grammar

page 117

9.98 pleasant (adj) /'pleznt/
enjoyable • *We had a pleasant day at the beach.* > pleasantly (adv), pleasure (n), please (v) ☞ Opp: unpleasant

9.99 state of the art (adj) /steɪt əv ðɪ 'aɪt/
very modern • *This car has state of the art technology and it is the best on the market at the moment.*

- 9.100** **colleague** (n) /'kɒliːg/
sb you work with • *My colleague checked my report for me before I gave it to my boss.*
- 9.101** **hand in** (phr v) /hænd ɪn/
give sth to a teacher • *'Please hand in your homework tomorrow,' said the teacher.*
- 9.102** **think for yourself** (phr v) /θɪŋk fə ʃɔː'self/
form your own opinions without depending on others • *The most important lesson in life is learning to think for yourself.*
- 9.103** **nowadays** (adv) /'naʊədeɪz/
at the present time, not the past • *Nowadays most people can use a computer.*
- 9.104** **lips** (n) /lɪps/
the two soft edges at the opening to your mouth • *She had dark hair, brown eyes and red lips.*
- 9.105** **cheer on** (phr v) /tʃɪər ɒn/
shout to encourage sb in a race, competition, etc. • *The fans cheered on their teams.*

Writing

pages 118-119

- 9.106** **program** (n) /'prəʊgræm/
instructions in code that control the way a computer operates • *He writes computer programs for a living.* > program (v)
- 9.107** **operation** (n) /ɒpə'reɪʃn/
cutting into sb's body to repair a part or remove it • *Nancy broke her arm badly in three places and she needs an operation to fix it.* > operate (v)

Video 9 Mars

Rovers

page 120

- 9.108** **advance** (n) /ədvaːns/
progress • *Advances in medicine mean that many diseases today can be cured and are no longer deadly.* > advance (v)

- 9.109** **measure** (v) /'meɪʒə/
find the size, quantity of sth using standard units • *Each year the amount of rain that falls is measured and the results are put into a database.* > measurement (n)
- 9.110** **image** (n) /'ɪmɪdʒ/
a picture • *The satellite took some wonderful images of the Earth from space.*
- 9.111** **volcano** (n) /vɒl'keɪnəʊ/
a mountain from which lava and gases come out • *The volcano erupted and lava came down the side of the mountain.* > volcanic (adj)
- 9.112** **Mars rover** (n) /mɑːs 'rəʊvə/
a robot used to explore Mars • *The Mars rovers sent back a lot of data to Earth, which scientists analysed.*
- 9.113** **bring sth up** (phr v) /brɪŋ 'sʌmθɪŋ ʌp/
mention a subject • *I'd like to bring up an important subject for discussion.*
- 9.114** **alternative** (adj) /ɔːl'tɜːnətɪv/
that can be used instead of sth else • *I think your idea is good, but I have an alternative idea that is better.* > alternative (n)
- 9.115** **operate** (v) /'ɒpəreɪt/
make sth work • *Greg works in a car factory and operates the machines which build the cars.* > operation (n), operator (n)
- 9.116** **pattern** (n) /'pætən/
an arrangement of colours or shapes that is repeated • *Patterns on the surface of the moon used to make people think the moon had a face.*
- 9.117** **rough** (adj) /rʌf/
not smooth • *The road is rough and you need a jeep to travel on it.* > roughly (adv), roughness (n)
- 9.118** **surface** (n) /'sɜːfɪs/
the outside or top layer of sth • *The ball floated on the surface of the water.*