

5 Emerging technologies



Glossary

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- 5.1 emerging** (adj) /ɪ'mɜːdʒɪŋ/
new, just beginning to exist or become known
• *She's an emerging artist from Spain. You may not have heard of her yet.* > emerge (v)
❖ _____
- 5.2 sample** (n) /sɑːmpl/
a small amount of sth that you can use to taste or get information about the rest of it • *The doctor needed a sample of blood.*
❖ _____
- 5.3 bacteria** (n pl) /bæk'tɪəriə/
very small organisms that live everywhere and can cause disease • *They discovered the bacteria that caused the illness in the water.*
❖ _____

Reading Pages 54–55

- 5.4 cause** (v) /kɔːz/
make sth (usually bad) happen • *The storm caused terrible destruction in the area.*
> cause (n) ❖ _____
- 5.5 monitor** (v) /'mɒnɪtə(r)/
watch and check carefully to see how a situation develops or to get information • *The police monitored the suspect's phone calls.*
> monitor (n) ❖ _____
- 5.6 drone** (n) /drəʊn/
a small aircraft without a pilot that is controlled by sb on the ground • *Many drones have cameras so you can take photos from above.*
❖ _____
- 5.7 slam** (v) /slæm/
crash into sth with a lot of force • *The driver lost control of the car and slammed into a tree.*
❖ _____
- 5.8 asteroid** (n) /'æstə,rɔɪd/
one of the many big rocks that go around the sun • *The asteroid flew within 200,000 miles of the Earth.* ❖ _____
- 5.9 redirection** (n) /,rɪ:də'rekʃn/
the act of changing the direction in which sth moves • *Don't worry – redirection to our new web address is automatic.* > redirect (v)
❖ _____

- 5.10 orbit** (v) /'ɔːbɪt/
move or make sth move in a circle around sth else • *It takes the Earth a year to orbit the sun.*
> orbit (n) ❖ _____
- 5.11 impact** (n) /'ɪmpækt/
the force with which sth hits sth else • *The scientists calculated the impact of the asteroid hitting our planet.* > impact (v) ❖ _____
- 5.12 record** (v) /rɪ'kɔːd/
write down information so that you can keep it for the future • *The police recorded every move the suspect made.* > record (n)
❖ _____
- 5.13 precise** (adj) /prɪ'saɪs/
exact • *I can give you a general outline, but I don't yet know the precise details of what happened.* > precision (n) ❖ _____
- 5.14 planetary** (adj) /'plænɪtəri/
related to planets • *There are thousands of planetary systems in our galaxy.* > planet (n)
❖ _____
- 5.15 defence** (n) /dɪ'fens/
protection against attack or criticism • *When the bullies attacked her brother, she leapt to his defence.* > defend (v), defensive (adj)
❖ _____
- 5.16 collision** (n) /kə'lɪʒn/
an accident in which two moving objects or people crash into each other • *The pilot avoided the collision by changing course at the last minute.* > collide (v) ❖ _____
- 5.17 decrease** (v) /dɪ'kriːs/
make or become smaller • *As a result of the new measures, crime in inner city areas has decreased by 10%.* > decrease (n)
❖ _____  Syn: reduce
- 5.18 military** (adj) /'mɪlɪtri/
related to the army • *The soldiers were wearing brown military uniforms.* ❖ _____
- 5.19 eager** (adj) /'iːgə(r)/
wanting to do sth very much • *The staff were all very kind and eager to help us.*
> eagerness (n) ❖ _____  Syn: willing
- 5.20 remote-control** (adj) /rɪ,məʊt kən'trəʊl/
that you can control from a distance • *The car has remote-control central locking. Just press this button and all the doors will automatically lock.* ❖ _____

- 5.21 aid** (n) /eɪd/
money, food or other supplies that an organisation or country gives to a group of people in need or to a poor country
• *Thousands of lives will be saved when the aid arrives in the country.* ❖ _____
- 5.22 humanitarian** (adj) /hjuː,mænɪ'teəriən/
aiming to improve people's lives and reduce suffering • *The prisoner was very ill so they decided to set him free for humanitarian reasons.* ❖ _____
- 5.23 assignment** (n) /ə'saɪnmənt/
a task that you ask sb to do as part of their job or studies • *They sent him abroad on a very difficult assignment.* > assign (v)
❖ _____
- 5.24 survivor** (n) /sə'vaɪvə(r)/
a person who continues to live after experiencing great danger or difficulty • *Unfortunately, there were only two survivors of the plane crash.*
> survive (v), survival (n) ❖ _____
- 5.25 flood** (n) /flʌd/
a large amount of water covering an area that is normally dry • *The heavy rain has caused floods all over the country.* > flood (v)
❖ _____
- 5.26 transport** (v) /træn'spɔːt/
move goods or people from one place to another • *Most products are transported by road across the country.* > transport (n), transportation (n) ❖ _____
- 5.27 vital** (adj) /'vaɪtəl/
necessary or extremely important • *The mayor's support is vital to the success of the project.* ❖ _____
- 5.28 poacher** (n) /'pəʊtʃə(r)/
sb that hunts animals illegally • *Unfortunately, poachers are still killing elephants and rhinos.*
❖ _____
- 5.29 capture** (v) /'kæptʃə(r)/
catch a person or animal and keep them in a place from which they can't escape • *They capture wild animals and sell them to zoos.*
> capture (n), captive (adj) ❖ _____
- 5.30 sense** (v) /sens/
feel or experience sth • *I could sense that he wasn't happy although he said he was.*
> sense (n) ❖ _____
- 5.31 astrophysicist** (n) /,æstrəʊ'fɪzɪsɪst/
a scientist who studies stars and other objects in space • *Some astrophysicists believe it is possible that human beings will move to other planets in the near future.* > astrophysics (n)
❖ _____
- 5.32 equipped** (adj) /ɪ'kwɪpt/
having the necessary tools and clothes for a particular purpose • *Our kitchen is equipped with all modern appliances.* > equip (v), equipment (n) ❖ _____

- 5.33 acronym** (n) /'ækrənɪm/
an abbreviation that is pronounced as a word • *NASA is an acronym for the National Aeronautics and Space Administration.*
❖ _____
- 5.34 rough** (adj) /rʌf/
not exact • *I think I have a rough idea of what you mean, but can you give me more details?*
❖ _____ 📎 Opp: precise, exact
- 5.35 highlight** (v) /'haɪlaɪt/
emphasise sth important • *The study highlights the need to take measures urgently.*
❖ _____ 📎 Syn: emphasise
- 5.36 illegally** (adv) /ɪ'liːgəli/
in a way that breaks the law • *I got a fine for parking illegally.* > illegal (adj) ❖ _____
📎 Opp: legally

Vocabulary Page 56

- 5.37 access** (v) /'ækses/
be able to open a computer file, website, etc.
• *I couldn't access my documents because I had forgotten my password.* > access (n)
❖ _____
- 5.38 attachment** (n) /ə'tætʃmənt/
a file included in an email • *There were two attachments in the email he sent us. Did you download the files?* > attach (v)
❖ _____
- 5.39 backup** (n) /'bækʌp/
a copy of the information on a computer that is stored separately for security • *I make a backup of all my work files every day.*
❖ _____
- 5.40 bookmark** (n) /'bʊkmɑːk/
website address saved on a computer so it can be easily found • *I've got two online dictionaries in my bookmarks.* > bookmark (v)
❖ _____
- 5.41 browse** (v) /braʊz/
look at information on the internet • *I found your site while I was browsing and I thought it was amazing.* > browser (n) ❖ _____
- 5.42 display** (v) /dɪ'spleɪ/
show sth on a screen • *The screen will display the name of the current user in the top right-hand corner.* > display (n) ❖ _____
- 5.43 undo** (v) /ʌn'duː/
cancel sth that you did previously on a computer • *On a computer you can easily undo something if you change your mind.*
❖ _____

- 5.44 upgrade** (v) /ʌp'greɪd/
replace a machine or system with a newer or better one • *It's time to upgrade my phone – I've had it for ten years.*
❖ _____ 📎 Opp: downgrade
- 5.45 virtually** (adv) /'vɜ:tʃuəli/
done or seen using a computer or the internet, without going anywhere or meeting people in person • *You can join our class virtually from the comfort of your home.* > virtual (adj)
❖ _____
- 5.46 anti-virus** (adj) /,ænti'vaɪərəs/
protecting a computer from programs that can harm it • *You should use a good anti-virus program that protects you without slowing down your computer.* ❖ _____
- 5.47 broadband** (n) /'brɔ:dbænd/
a system that allows a lot of information to be shared between computers via the internet
• *Most homes have broadband internet access these days.* ❖ _____
- 5.48 database** (n) /'deɪtəbeɪs/
a large amount of information stored on a computer so that it can be easily accessed and used • *We have more than 10,000 names and addresses in our database.* ❖ _____
- 5.49 desktop** (n) /'deskɒp/
a computer that fits on a desk and is not intended to be carried around • *I have a powerful desktop at work, but just use a tablet at home.* ❖ _____
- 5.50 headset** (n) /'hedset/
a set of headphones with a microphone
• *I use a headset to listen to music, so as not to disturb other people.* ❖ _____
- 5.51 hard drive** (n) /'hɑ:d ,draɪv/
a disk inside a computer or other device where large amounts of information can be stored and used • *The hard drive on my laptop isn't as big as the one on my desktop.*
❖ _____ 📎 Syn: hard disk
- 5.52 password** (n) /'pɑ:swɜ:d/
a series of letters, numbers and/or symbols that you must type into a computer to be able to use it • *You can't access these files unless you have the password.* ❖ _____
- 5.53 network** (n) /'netwɜ:k/
a number of computers that are connected together so that they can share information
• *All the computers in our office are on the same network so we can easily send large files to each other.* ❖ _____
- 5.54 wireless** (adj) /'waɪələs/
using radio signals rather than cables or wires to connect devices to each other • *You can control your wireless speaker from a distance, using your phone.* ❖ _____

- 5.55 virtual reality** (n) /'vɜ:tʃuəl rɪ'ælɪti/
a set of images and sounds produced by a computer which represent a real place or situation • *The use of virtual reality in computer games makes the experience much more engaging.* ❖ _____
- 5.56 cloud** (n) /klaʊd/
a network where information is stored that you can access over the internet • *I keep all my files on the cloud so I can access them wherever I am.* ❖ _____
- 5.57 hacker** (n) /'hækə(r)/
a person that knows a lot about computers and accesses private computer systems illegally
• *A hacker can break into your computer and steal all of the information you store there.*
> hack (v) ❖ _____

Computers

access	broadband	hard drive
anti-virus	browse	network
app	cloud	upgrade
attachment	database	virtual reality
backup	desktop	wireless
bookmark	display	

Grammar Page 57

- 5.58 capable** (adj) /'keɪpəbl/
able to do sth and achieve results • *I don't need your help – I'm perfectly capable of doing it myself.* > capability (n) ❖ _____
- 5.59 perform** (v) /pə'fɔ:m/
do an action or a task • *Computers can perform millions of calculations in no time.*
> performance (n), performer (n)
❖ _____

Speaking Page 59

- 5.60 lead** (v) /li:d/
direct, manage (a conversation) • *The teacher led the discussion so that all the students could express their views.* > leader (n)
❖ _____
- 5.61 dominate** (v) /'dɒmɪneɪt/
not allow other people to participate • *If you're really confident in your abilities, you don't try to dominate others.* > domination (n), dominant (adj) ❖ _____

Grammar Page 60

- 5.62** **useless** (adj) /'ju:sləs/
not at all good at sth • *I'm afraid I can't help you; I'm useless with computers.* ❖ _____
- 5.63** **fairly** (adv) /'feəli/
slightly more than average • *He's not the tallest boy in his class, but he's fairly tall.*
❖ _____
- 5.64** **charity** (n) /'tʃærəti/
an organisation that helps people in need and does not make a profit • *A number of charities have sent money to help the victims of the earthquake.* > charitable (adj)
❖ _____
- 5.65** **shame** (n) /ʃeɪm/
sth disappointing that makes you feel sad • *It's such a shame that you didn't come to the party – we had loads of fun.* ❖ _____
📎 Syn: pity

Use your English Page 61

- 5.66** **fake** (adj) /feɪk/
not real, but made to look real • *They discovered his passport was fake and arrested him.* > fake (v, n) ❖ _____
- 5.67** **take (sb) in** (phr v) /teɪk ('sʌmbədi) ɪn/
make sb believe sth that is not true • *He's a liar so whatever he says, don't be taken in.*
❖ _____
- 5.68** **come up** (phr v) /kʌm ʌp/
appear; become available • *I looked for more information about the company online, but nothing came up.* ❖ _____
- 5.69** **do without** (phr v) /du: wɪðaʊt/
manage without having sth • *We'll have to do without coffee today as we've run out.*
❖ _____
- 5.70** **key (sth) in** (phr v) /ki: (sʌmθɪŋ) ɪn/
enter information into a computer or other device by hitting buttons on a keyboard • *It will take hours to key in all these names by hand.*
❖ _____
- 5.71** **speak up** (phr v) /spi:k ʌp/
speak more loudly so that others can hear you • *I can't hear you. Can you speak up, please?*
❖ _____
- 5.72** **get hold of** (phr v) /get həʊld əv/
find sth that you need or want • *I need to get hold of her address – do you happen to have it?* ❖ _____
- 5.73** **watch out for** (phr v) /wɒtʃ aʊt fə(r)/
be careful so that you will notice if sth is interesting or wrong • *You should always watch out for cars when you cross the road.*
❖ _____

- 5.74** **fool** (v) /fu:l/
trick sb into believing sth that is not true
• *He said he could help, but he didn't fool me. I knew he had other plans.* ❖ _____
- 5.75** **sensor** (n) /'sensə(r)/
a device that can tell whether sth is present or has changed • *The security camera has a motion sensor, so it will turn itself on if anyone moves.* > sense (v, n) ❖ _____
- 5.76** **detect** (v) /dɪ'tekt/
discover sth by using special equipment • *The fire alarm will go off automatically if it detects smoke.* > detection (n) ❖ _____
- 5.77** **stare** (v) /steə(r)/
look for a long time, with eyes wide open • *You shouldn't stare at people on the train. It's rude.*
❖ _____
- 5.78** **drop** (n) /drɒp/
a very small amount of liquid • *I think I felt a drop of rain. Is it raining?* ❖ _____
- 5.79** **exhausting** (adj) /ɪg'zɔ:stɪŋ/
making you feel extremely tired • *It was an exhausting drive, but after six hours I was relieved we were finally there.* > exhaust (v), exhaustion (n) ❖ _____
- 5.80** **plug (sth) in** (phr v) /plʌg ('sʌmθɪŋ) ɪn/
connect sth to a piece of electrical equipment or to the electricity supply • *You need to plug your desktop in before you start using it.*
❖ _____
- 5.81** **compete** (v) /kəm'pi:t/
try to be better or more successful than sb else • *It's very difficult for small local shops to compete with online stores.* > competition (n)
❖ _____
- 5.82** **when it comes to** (phr) /wen ɪt kʌmz tə/
taking into consideration • *When it comes to cooking, I am completely useless.*
❖ _____ 📎 Syn: with regard to
- 5.83** **non-verbal** (adj) /,nɒn 'vɜ:bl/
without using words • *Body language is a form of non-verbal communication.* ❖ _____
📎 Opp: verbal
- 5.84** **clue** (n) /klu:/
a sign or piece of information that helps you find or understand sth • *The detectives searched the whole building for clues.*
❖ _____

Phrasal verbs

back up	pick up
come up	plug in
do without	speak up
get hold of	take in
key in	watch out for
log out	

Writing Pages 62–63

- 5.85 speculate** (v) /ˈspekjəleɪt/ guess without knowing all the facts • *We can all speculate about the reason why he left, but only he knows the truth.* > speculation (n) ❖ _____
- 5.86 variety** (n) /vəˈraɪəti/ many different types of • *She has a variety of hobbies, including skydiving, rollerskating and hiking.* ❖ _____
- 5.87 rephrase** (v) /ˌriːˈfreɪz/ say or write sth again in a different way • *I couldn't understand what she said, so I asked her to rephrase it.* ❖ _____
- 5.88 demonstrate** (v) /ˈdemənstreɪt/ show that you have a particular ability or feeling • *He has demonstrated his creative talent in the stories that he's written.* > demonstration (n) ❖ _____
- 5.89 aspect** (n) /ˈæspekt/ a part of a situation or topic • *We examined every aspect of the problem.* ❖ _____
- 5.90 stream** (v) /striːm/ send or receive sound and/or video directly over the internet • *We are going to stream the interview live.* ❖ _____
- 5.91 drawback** (n) /ˈdrɔːbæk/ negative point • *It's a fantastic plan; the only drawback is its high cost.* ❖ _____
📎 Syn: disadvantage
- 5.92 consequently** (adv) /ˈkɒnsɪkwəntli/ as a result • *He is usually rather rude and consequently doesn't have many friends.* > consequence (n) ❖ _____
- 5.93 addiction** (n) /əˈdɪkʃn/ a habit that involves doing sth harmful, which you are unable to stop • *She is trying to fight her addiction to social media and only uses her phone for an hour a day.* > addict (n), addicted (adj) ❖ _____
- 5.94 however** (adv) /ˌhaʊˈevə(r)/ in spite of that • *I was feeling ill. However, I tried to get on with my work.* ❖ _____
📎 Syn: nevertheless
- 5.95 nevertheless** (adv) /ˌnevəðəˈles/ in spite of what has just been mentioned • *The weather was terrible. Nevertheless, they went out for a walk.* ❖ _____
📎 Syn: however
- 5.96 furthermore** (adv) /ˌfɜːðəˈmɔː(r)/ in addition • *It's the job I always wanted to do. Furthermore, it's very well paid.* ❖ _____
📎 Syn: additionally, moreover
- 5.97 moreover** (adv) /ˌmɔːˈrəʊvə(r)/ in addition, also • *He enjoys his job and, moreover, he's really good at it.* ❖ _____
📎 Syn: additionally, furthermore

LOOK!

We usually put the adverbs *consequently*, *furthermore*, *moreover*, *however* and *nevertheless* at the beginning of a sentence followed by a comma.

- *I missed the 8:00 train this morning. **Consequently**, I was late for work.*
- *You should read the job description carefully. **Furthermore**, you should find out more information about the company on the internet.*
- *He noticed that there were two people following him. **Moreover**, he realised they were furious.*
- *I understand what you're saying. **However**, I cannot agree.*
- *Your performance was good. **Nevertheless**, it could have been a lot better.*

Live well, study well

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- 5.98 infographic** (n) /ˌɪnfəʊˈgræfɪk/ a picture or diagram that presents information • *The infographic shows how smartphones have changed our lives in the last ten years.* ❖ _____
- 5.99 USB stick** (n) /ˌjuːsˈbiːˌstɪk/ a small device that you connect to a computer and transfer information to • *I've put the presentation on this USB stick.* ❖ _____
- 5.100 keep on top of** (expr) /ki:p ɒn tɒp əv/ be in control of a situation • *There's no way you can keep on top of all the work you have to do if you don't manage your time better.* ❖ _____
- 5.101 commitment** (n) /kəˈmɪtmənt/ something that you must do that takes your time • *I can't take on any more commitments. I'm already far too busy.* > commit (v), committed (adj) ❖ _____
- 5.102 digital** (adj) /ˈdɪdʒɪtl/ using computer technology • *I bought a digital watch that also measures my blood pressure.* ❖ _____
- 5.103 keep track of** (expr) /ki:p træk əv/ continue to get information about what is happening or where sb/sth is • *You've had so many different jobs that I can't keep track of what you're doing.* ❖ _____
- 5.104 deadline** (n) /ˈdedlaɪn/ the time by which sth must be completed • *I thought it wouldn't be difficult to meet the deadline, but there was so much work that in the end I missed it.* ❖ _____

5.105 complicated (adj) /'kɒmplɪkeɪtɪd/
having a lot of different parts that are difficult to understand • *The lecture was very complicated and I found it hard to follow.*
> complicate (v), complication (n)
❖ _____ ✎ Opp: simple

5.106 aware (adj) /ə'weə(r)/
having knowledge or experience of sth
• *I wasn't aware that the game had been cancelled.* > awareness (n) ❖ _____
✎ Opp: unaware

5.107 screen time (n) /'skri:n ,taɪm/
the amount of time sb spends looking at the screen of a TV, computer, smartphone or other electronic device • *The children are allowed an hour of screen time a day.* ❖ _____

5.108 balance (n) /'bæləns/
a situation in which things stay equal and have the right relationship between them • *It's not always easy to find the right balance between work and leisure.* ❖ _____