**5** Emerging technologies

**Glossary**

## Page 53

* 1. **emerging** (adj) /ɪˈmɜːdʒɪŋ/

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)
* aufstrebender/e/es
  1. **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.*

* die Probe
  1. **bacteria** (n pl) /bækˈtɪəriə/

very small organisms that live everywhere and can cause disease ● *They discovered the bacteria that caused the illness in the water.*

* die Bakterien (plural; singular: die Bakterie)

Reading **Pages 54–55**

* 1. **cause** (v) /kɔːz/

make sth (usually bad) happen ● *The storm caused terrible destruction in the area.*

➣ cause (n) ❖ bewirken

* 1. **monitor** (v) /ˈmɒnɪtə(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) ❖ überwachen

* 1. **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.*

* die Drohne
  1. **slam** (v) /slæm/

crash into sth with a lot of force ● *The driver lost control of the car and slammed into a tree.*

* mit etw. gegen etw. knallen
  1. **asteroid** (n) /ˈæstəˌrɔɪd/

one of the many big rocks that go around the sun ● *The asteroid flew within 200,000 miles of the Earth.* ❖ der Asteroid

* 1. **redirection** (n) /ˌriːdəˈrekʃn/

the act of changing the direction in which sth moves ● *Don’t worry – redirection to our new web address is automatic.* ➣ redirect (v)

* die Weiterleitung

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* 1. **orbit** (v) /ˈɔːbɪt/

move or make sth move in a circle around sth else ● *It takes the Earth a year to orbit the sun.*

➣ orbit (n) ❖ umkreisen

* 1. **impact** (n) /ˈɪmpækt/

the force with which sth hits sth else ● *The scientists calculated the impact of the asteroid hitting our planet.* ➣ impact (v) ❖ der Aufprall

* 1. **record** (v) /rɪˈkɔːd/

write down information so that you can keep it for the future ● *The police recorded every move the suspect made.* ➣ record (n)

* aufzeichnen, festhalten
  1. **precise** (adj) /prɪˈsaɪs/

exact ● *I can give you a general outline, but I don’t yet know the precise details of what happened.* ➣ precision (n) ❖ genauer/e/es

* 1. **planetary** (adj) /ˈplænɪtəri/

related to planets ● *There are thousands of planetary systems in our galaxy.* ➣ planet (n)

* planetarischer/e/es
  1. **defence** (n) /dɪˈfens/

protection against attack or criticism ● *When the bullies attacked her brother, she leapt to his defence.* ➣ defend (v), defensive (adj)

* die Verteidigung
  1. **collision** (n) /kəˈlɪʒn/

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) ❖ die Kollision, der Zusammenstoß

* 1. **decrease** (v) /dɪˈkriːs/

make or become smaller ● *As a result of the new measures, crime in inner city areas has decreased by 10%.* ➣ decrease (n)

* abnehmen ✎ Syn: reduce
  1. **military** (adj) /ˈmɪlɪtri/

related to the army ● *The soldiers were wearing brown military uniforms.* ❖ Militär-, militärischer/e/es

* 1. **eager** (adj) /ˈiːɡə(r)/

wanting to do sth very much ● *The staff were all very kind and eager to help us.*

➣ eagerness (n) ❖ eifriger/e/es, beflissener/e/ es ✎ Syn: willing

* 1. **remote-control** (adj) /rɪˌməʊt kənˈtrəʊl/

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.* ❖ ferngesteuerter/e/es

* 1. **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.* ❖ die Beihilfe
  1. **humanitarian** (adj) /hjuːˌmænɪˈteəriən/ aiming to improve people’s lives and reduce suffering ● *The prisoner was very ill so they decided to set him free for humanitarian reasons.* ❖ humanitärer/e/es, menschenfreundlicher/e/es
  2. **assignment** (n) /əˈsaɪnmənt/

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)

* der Arbeitsauftrag
  1. **survivor** (n) /səˈvaɪvə(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) ❖ der/die Überlebende

* 1. **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)

* die Überschwemmung
  1. **transport** (v) /trænˈspɔːt/

move goods or people from one place to another ● *Most products are transported by road across the country.* ➣ transport (n), transportation (n) ❖ befördern

* 1. **vital** (adj) /ˈvaɪtl/

necessary or extremely important ● *The mayor’s support is vital to the success of the project.* ❖ wesentlicher/e/es

* 1. **poacher** (n) /ˈpəʊtʃə(r)/

sb that hunts animals illegally ● *Unfortunately, poachers are still killing elephants and rhinos.*

* der Wilderer/die Wilderin
  1. **capture** (v) /ˈkæptʃə(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) ❖ fangen, einfangen
  1. **sense** (v) /sens/

feel or experience sth ● *I could sense that he wasn’t happy although he said he was.*

➣ sense (n) ❖ spüren

* 1. **astrophysicist** (n) /ˌæstrəʊˈfɪzɪsɪst/

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)

* der/die Astrophysiker/-in
  1. **equipped** (adj) /ɪˈkwɪpt/

having the necessary tools and clothes for a particular purpose ● *Our kitchen is equipped with all modern appliances.* ➣ equip (v), equipment (n) ❖ ausgestatteter/e/es

* 1. **acronym** (n) /ˈækrənɪm/

an abbreviation that is pronounced as a word ● *NASA is an acronym for the National Aeronautics and Space Administration.*

* das Akronym
  1. **rough** (adj) /rʌf/

not exact ● *I think I have a rough idea of what you mean, but can you give me more details?*

* grober/e/es ✎ Opp: precise, exact
  1. **highlight** (v) /ˈhaɪlaɪt/

emphasise sth important ● *The study highlights the need to take measures urgently.*

* hervorheben ✎ Syn: emphasise
  1. **illegally** (adv) /ɪˈliːɡəli/

in a way that breaks the law ● *I got a fine for parking illegally.* ➣ illegal (adj) ❖ rechtswidrig

✎ Opp: legally

Vocabulary **Page 56**

* 1. **access** (v) /ˈækses/

be able to open a computer file, website, etc.

* + - *I couldn’t access my documents because I had forgotten my password.* ➣ access (n)
* zugreifen auf
  1. **attachment** (n) /əˈtætʃmənt/

a file included in an email ● *There were two attachments in the email he sent us. Did you download the files?* ➣ attach (v)

* der Anhang
  1. **backup** (n) /ˈbækʌp/

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.*

* das Backup, die Datensicherung
  1. **bookmark** (n) /ˈbʊkmɑːk/

website address saved on a computer so it can be easily found ● *I’ve got two online*

*dictionaries in my bookmarks.* ➣ bookmark (v)

* das Lesezeichen, das Bookmark
  1. **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) ❖ browsen, stöbern

* 1. **display** (v) /dɪˈspleɪ/

show sth on a screen ● *The screen will display the name of the current user in the top right- hand corner.* ➣ display (n) ❖ anzeigen

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* 1. **undo** (v) /ʌnˈduː/

cancel sth that you did previously on a computer ● *On a computer you can easily undo something if you change your mind.*

* rückgängig machen
  1. **upgrade** (v) /ʌpˈɡreɪd/

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.*

* nachrüsten, upgraden ✎ Opp: downgrade
  1. **virtually** (adv) /ˈvɜːtʃuəli/

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)

* praktisch
  1. **anti-virus** (adj) /ˌæntiˈvaɪərəs/

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.* ❖ Virenschutz-

* 1. **broadband** (n) /ˈbrɔːdbænd/

a system that allows a lot of information to be shared between computers via the internet

* + - *Most homes have broadband internet access these days.* ❖ der Breitbandanschluss
  1. **database** (n) /ˈdeɪtəbeɪs/

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.*

* das Rechenzentrum
  1. **desktop** (n) /ˈdesktɒp/

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.* ❖ der Desktop-PC

* 1. **headset** (n) /ˈhedset/

a set of headphones with a microphone

* + - *I use a headset to listen to music, so as not to disturb other people.* ❖ der Kopfhörer
  1. **hard drive** (n) /ˈhɑːd ˌdraɪv/

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.*

* die Festplatte ✎ Syn: hard disk
  1. **password** (n) /ˈpɑːswɜːd/

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.* ❖ das Passwort

* 1. **network** (n) /ˈnetwɜːk/

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.* ❖ das Netzwerk
  1. **wireless** (adj) /ˈwaɪələs/

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.* ❖ drahtloser/e/es, Wireless-

* 1. **virtual reality** (n) /ˌvɜːtjuəl riˈælɪti/

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.* ❖ die virtuelle Realität

* 1. **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.* ❖ die Cloud

* 1. **hacker** (n) /ˈhækə(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) ❖ der/die Hacker/-in

**Computers**

access anti-virus app attachment backup bookmark

broadband browse cloud database desktop display

hard drive network upgrade virtual reality wireless

Grammar **Page 57**

* 1. **capable** (adj) /ˈkeɪpəbl/

able to do sth and achieve results ● *I don’t need your help – I’m perfectly capable of doing it myself.* ➣ capability (n) ❖ fähiger/e/es

* 1. **perform** (v) /pəˈfɔːm/

do an action or a task ● *Computers can perform millions of calculations in no time.*

➣ performance (n), performer (n)

* ausführen

Speaking **Page 59**

* 1. **lead** (v) /liːd/

direct, manage (a conversation) ● *The teacher led the discussion so that all the students could express their views.* ➣ leader (n)

* führen, leiten
  1. **dominate** (v) /ˈdɒmɪneɪt/

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) ❖ unterbuttern, dominieren

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Grammar **Page 60**

* 1. **useless** (adj) /ˈjuːsləs/

not at all good at sth ● *I’m afraid I can’t help you; I’m useless with computers.* ❖ unbrauchbarer/e/ es

* 1. **fairly** (adv) /ˈfeəli/

slightly more than average ● *He’s not the tallest boy in his class, but he’s fairly tall.*

* ziemlich
  1. **charity** (n) /ˈtʃærəti/

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)

* die Wohltätigkeitsorganisation
  1. **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.* ❖ die Schande, der Jammer ✎ Syn: pity

Use your English **Page 61**

* 1. **fake** (adj) /feɪk/

not real, but made to look real ● *They discovered his passport was fake and arrested him.* ➣ fake (v, n) ❖ gefälschter/e/es

* 1. **take (sb) in** (phr v) /teɪk (ˈsʌmbədi) ɪn/ make sb believe sth that is not true ● *He’s a liar so whatever he says, don’t be taken in.*
* sich täuschen lassen
  1. **come up** (phr v) /kʌm ʌp/

appear; become available ● *I looked for more information about the company online, but nothing came up.* ❖ hochkommen, erscheinen

* 1. **do without** (phr v) /du: wɪðaʊt/

manage without having sth ● *We’ll have to do without coffee today as we’ve run out.*

* ohne etw. auskommen
  1. **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.*

* (etw.) eingeben
  1. **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?*
* lauter sprechen
  1. **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?* ❖ etw. auftreiben

* 1. **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.*

* achten auf
  1. **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.* ❖ täuschen
  1. **sensor** (n) /ˈsensə(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) ❖ der Sensor

* 1. **detect** (v) /dɪˈtekt/

discover sth by using special equipment ● *The fire alarm will go off automatically if it detects smoke.* ➣ detection (n) ❖ erkennen

* 1. **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.*

* anstarren
  1. **drop** (n) /drɒp/

a very small amount of liquid ● *I think I felt a drop of rain. Is it raining?* ❖ der Tropfen

* 1. **exhausting** (adj) /ɪɡˈzɔːstɪŋ/

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) ❖ strapaziöser/e/es

* 1. **plug (sth) in** (phr v) /plʌg (ˈsʌmθɪŋ) 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.*
* (etw.) in die Steckdose stecken, (etw.) einstecken
  1. **compete** (v) /kəmˈpiːt/

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)

* konkurrieren
  1. **when it comes to** (phr) /wen ɪt kʌmz tə/ taking into consideration ● *When it comes to cooking, I am completely useless.*
* in Hinblick auf ✎ Syn: with regard to
  1. **non-verbal** (adj) /ˌnɒn ˈvɜ:bl/

without using words ● *Body language is a form of non-verbal communication.* ❖ nonverbaler/e/ es ✎ Opp: verbal

* 1. **clue** (n) /kluː/

a sign or piece of information that helps you find or understand sth ● *The detectives searched the whole building for clues.*

* der Hinweis

**Phrasal verbs**

back up come up do without get hold of key in

log out

pick up plug in speak up take in

watch out for

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Writing **Pages 62–63**

* 1. **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)

* Vermutungen äußern, spekulieren
  1. **variety** (n) /vəˈraɪəti/

many different types of ● *She has a variety of hobbies, including skydiving, rollerskating and hiking.* ❖ die Vielzahl

* 1. **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.* ❖ umformulieren
  1. **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) ❖ demonstrieren

* 1. **aspect** (n) /ˈæspekt/

a part of a situation or topic ● *We examined*

# Live

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.*

## Page 64

# well, study well

*every aspect of the problem.* ❖ der Aspekt

**LOOK!**

* 1. **stream** (v) /striːm/

send or receive sound and/or video directly over the internet ● *We are going to stream the interview live.* ❖ streamen

* 1. **drawback** (n) /ˈdrɔːbæk/

negative point ● *It’s a fantastic plan; the only drawback is its high cost.* ❖ der Minuspunkt

✎ Syn: disadvantage

* 1. **consequently** (adv) /ˈkɒnsɪkwəntli/

as a result ● *He is usually rather rude and consequently doesn’t have many friends.*

➣ consequence (n) ❖ folglich

* 1. **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) ❖ die Sucht

* 1. **however** (adv) /ˌhaʊˈevə(r)/

in spite of that ● *I was feeling ill. However, I tried to get on with my work.* ❖ jedoch

✎ Syn: nevertheless

* 1. **nevertheless** (adv) /ˌnevəðəˈles/

in spite of what has just been mentioned ● *The weather was terrible. Nevertheless, they went out for a walk.* ❖ trotzdem ✎ Syn: however

* 1. **furthermore** (adv) /ˌfɜːðəˈmɔː(r)/

in addition ● *It’s the job I always wanted to do. Furthermore, it’s very well paid.*

* ferner ✎ Syn: additionally, moreover
  1. **moreover** (adv) /ˌmɔːˈrəʊvə(r)/

in addition, also ● *He enjoys his job and, moreover, he’s really good at it.* ❖ zudem

✎ Syn: additionally, furthermore

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* 1. **infographic** (n) /ˌɪnfəʊˈɡræfɪk/

a picture or diagram that presents information

* + - *The infographic shows how smartphones have changed our lives in the last ten years.*
* die Infografik
  1. **USB stick** (n) /juːesˈbiː ˌstɪk/

a small device that you connect to a computer and transfer information to ● *I’ve put the presentation on this USB stick.* ❖ der USB- Stick

* 1. **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.*

* mit etw. nachkommen
  1. **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) ❖ der Einsatz

* 1. **digital** (adj) /ˈdɪdʒɪtl/

using computer technology ● *I bought a digital watch that also measures my blood pressure.*

* digitaler/e/es
  1. **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.* ❖ über etw. den Überblick behalten, etw. verfolgen

* 1. **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.* ❖ die Frist, der Abgabetermin
  1. **complicated** (adj) /ˈkɒmplɪkeɪtɪd/

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)

* komplexer/e/es ✎ Opp: simple
  1. **aware** (adj) /əˈweə(r)/

having knowledge or experience of sth

* + - *I wasn’t aware that the game had been cancelled.* ➣ awareness (n) ❖ bewusster/e/es

✎ Opp: unaware

* 1. **screen time** (n) /ˈskriːn ˌtaɪm/

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.* ❖ die Bildschirmzeit

* 1. **balance** (n) /ˈbæləns/

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.* ❖ das Gleichgewicht

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