

Technology



1 a What can you remember about the vlog? Who said these things? Write Z (Zaki), Y (Yasmin), J (Joe) or D (Daisy).

- 1 There have been so many **advances in technology** in our lifetimes: social media, smartphones, vlogging. ____
- 2 What are the **game-changing innovations**? ____
- 3 I'm a total **geek**. ____
- 4 I think AI – **artificial intelligence** – is the most interesting development. ____
- 5 ... everything in your phone, including **automatic updates** ... uses AI. ____
- 6 I'm a bit of a **technophobe**. ____
- 7 What I like is that it's **user-friendly** – the controls are simple and it's easy to read when I'm running. ____
- 8 This app ... let's me **browse** all kinds of music. ____

b **5.01** Watch or listen again and check.

2 Choose the correct alternative.

TechForum Home About Reviews Q&A [Sign in](#)

How do you feel about computers and other technology?

Beth I'm not into technology. In fact, I'm a real ¹**technophobe / geek!** I know there have been some ²**user-friendly / significant** developments over the last 20 years, but I'd like to go back in time and live more simply.

Liam I use technology every day, for ³**streaming / browsing** music and ⁴**game-changing / browsing** the internet, but I'm not interested in how it all works.

Kamilli I think we live in interesting times in terms of recent ⁵**advances in technology / updates**. I'm excited about how ⁶**gadgets are / artificial intelligence is** opening up extraordinary new possibilities in business and healthcare.

Rafa To be honest, I'm a bit of a ⁷**technophobe / geek!** I want to own all the latest ⁸**high-tech / significant** devices. I've just bought myself a fitness tracker – my first piece of ⁹**wearable technology / update**.

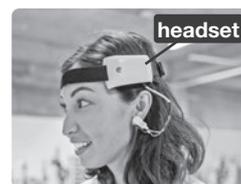
3 Complete the text with words from Ex 1 and 2.

NEWS > Technology

Mind-reading technology

The brain is an amazingly sophisticated and complex organ – so how can technology ever understand it? Well, now, amazingly, there are ¹_____ that can read your mind!

These computer-based systems use ²_____ in the form of brain signals and translate it to digital commands that are then sent to an output device to carry out a desired action.



With this ³_____ the user can, for example, change the TV channel by focusing their attention on the menu commands on screen. Mind-reading technology could be ⁴_____ in the fields of entertainment, gaming and even medicine. The only disadvantage is that the headsets aren't very ⁵_____, feeling uncomfortable after a short time, but hopefully their design will soon be improved.

4 **REAL ENGLISH** Complete the dialogue with the phrases below.

a no-brainer does that count get your head around
not rocket science piece of kit take it for granted

Maya What's the most significant advance in technology?

Noah That's ¹_____: the internet. We ²_____, but it's been life-changing.

Maya True, but what about a more recent innovation?

Lucy My electric bike is my favourite ³_____ – you just switch on the motor and go!

Maya But that's ⁴_____. What about the Human Genome Project? Using technology to study DNA. ⁵_____?

Noah Absolutely! I read that overall, humans are 99.9% genetically similar. It's hard to ⁶_____!

5 **VOCABULARY BOOSTER** Now practise **Technology** vocabulary on page 108.

1 Choose the correct alternative.



OOOPS! I'VE DISCOVERED SOMETHING GREAT!

Many scientific discoveries wouldn't have been made ¹**unless / on condition that** something had happened by chance. Here are three famous accidental innovations.

Millions of children around the world wouldn't have enjoyed using Play-Doh ²**even if / if** it hadn't been for an unsuccessful product for cleaning **wallpaper**. In 1954, American schoolteacher Kay Zufall was looking for a cheap **modelling clay** for her young pupils. She'd heard other people were using wallpaper cleaner made by her brother-in-law, Joe McVicker, so she bought some and the children loved it. When Joe saw their creations, he changed the product slightly and rebranded it as a toy, with huge success.



In the early 19th century, you probably ³**wouldn't wear / wouldn't have worn** purple clothes even if you ⁴**had / had had** quite a lot of money, as it was extremely expensive to produce the colour purple naturally. Things changed, however, in 1856 when William Henry Perkin, a young British chemist, accidentally created an artificial purple dye while trying to make a drug to fight malaria.

⁵**Supposing / As long as** you wanted to stick a note to a page in a book for a short time. You ⁶**would want / would have wanted** something sticky, but not too sticky. A Post-it note would be perfect! In the late 1960s, American chemist Dr Spencer Silver was trying to develop a very strong **glue**. Instead, he created the opposite – a very weak glue. A few years later, a chemical engineer called Art Fry had the idea of using it to create sticky paper bookmarks, and so the Post-it note was invented.

wallpaper (n) thick paper, often with a pattern on it, which is used for covering the walls of a room
modelling clay (n) a soft material you can easily form into different 3D shapes
glue (n) a sticky substance used to join things together

2 Read the text in Ex 1 again and complete the second and third conditional sentences with the verbs in brackets. Sometimes more than one answer is possible.

- If you _____ (want) to give a young child a simple toy, you could get them some Play-Doh.
- McVicker _____ (not change) the wallpaper cleaner into a toy if it had been selling well.
- You _____ (not need) to spend a lot of money if you wanted some purple clothes today.
- If William Henry Perkin hadn't been trying to make a drug to fight malaria, he _____ (not create) an artificial purple dye.
- Dr Silver Spencer wouldn't have invented a weak glue if he _____ (not / try) to develop a strong glue.
- If I needed to mark a page in a book, I _____ (use) a Post-It note or I might just use a piece of paper.

3 Complete the sentences with the conjunctions below. Sometimes more than one answer is possible.

as long as even if on condition that
providing / provided (that) supposing (that) unless

- I would have an electric car, _____ the battery lasted for more than a few hundred miles.
 - _____ cyber criminals had got hold of your data – what would you do?
 - They could take photos with a drone _____ it wasn't against the law.
 - _____ space travel was cheap and easily available to everyone, I wouldn't want to do it.
 - We couldn't have made these parts _____ we'd had a 3D printer. It's great we've got one.
 - We would be interested in buying the software _____ you were able to train us in how to use it.
- 4 Complete the second sentence so that it means the same as the first. You must use the word in brackets.
- I can't imagine posting a picture of a friend online if I wasn't sure they were happy for me to do so. (UNLESS)
I _____
_____ sure they were happy for me to do so.
 - It was lucky we had GPS; otherwise how would we have found this place? (SUPPOSING)

_____ GPS.
How would we have found this place?
 - I would travel in a driverless car, but I would need someone else to come with me! (LONG)
I would travel in a driverless car _____
_____ with me!
 - I could live in an underwater city, but I would need to visit the land every few weeks. (CONDITION)
I could live in an underwater city _____
_____ the land every few weeks.
 - We could give him a laptop, but he wouldn't use it. (EVEN)
He wouldn't use a laptop _____ him one.
 - Humans couldn't live on Mars if they didn't have the right life support systems. (PROVIDED)
Humans might _____
_____ the right life support systems.

5 Complete the sentences so they are true for you using appropriate conditionals.

- I would never _____ even if _____.
- I wouldn't _____ unless _____.
- I might _____ if _____.
- I would _____ on condition that _____.
- Supposing _____
That would be amazing!
- I wouldn't have _____ if _____.

1 What can you remember about the podcast in the Student's Book? Complete the notes with compound nouns using a word from A and a word from B.

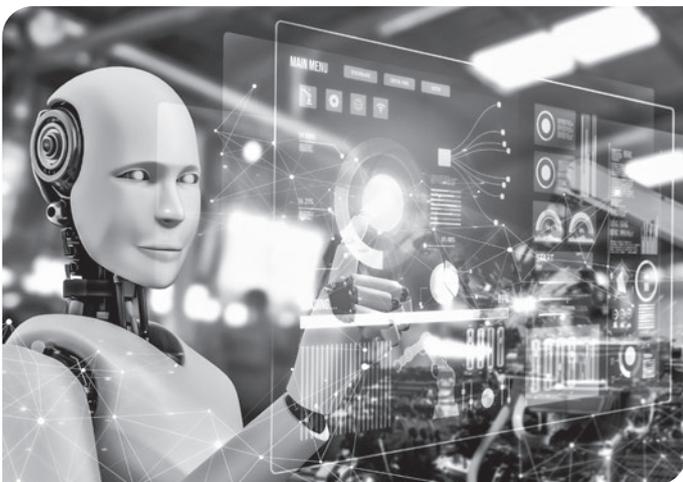
- | A digital distance on-demand social subscription
- | B content interaction learning revolution services

Streaming

Pros: ¹ _____ give people unlimited access to a wide range of films and music; they make ² _____ more effective and give more people access to education.

Cons: The availability of so much ³ _____ encourages people to spend too much time on their screens, which can be bad for their well-being; the ⁴ _____ has had a negative influence on musicians' income; online learning takes away the opportunities for ⁵ _____ offered in the 'real' world.

2 Look at the picture and answer the questions.



- 1 What do robots do that humans aren't capable of?
- 2 What can humans do that robots aren't capable of?
- 3 In what fields of everyday life is artificial intelligence currently used?

STRATEGY Distinguishing between supporting and contrasting information

To understand the structure of a spoken text, it's useful to be able to tell when a speaker is adding new information to support a point or introducing contrasting information to argue against it. When supporting or contrasting information is added, linking words are often used. For example: *in addition, needless to say, on top of that, furthermore* (supporting information). *having said that, however, on the other hand, although* (contrasting information).

3 **5.02** Read the strategy. Listen to Abe and Maya talk about the pros and cons of artificial intelligence. Tick (✓) the points they mention.

	Artificial intelligence
	Pros
	• It can work without needing to stop and rest. <input type="checkbox"/>
	• It can save organisations money. <input type="checkbox"/>
	• It doesn't make mistakes. <input type="checkbox"/>
	• It's often better at decision-making than humans. <input type="checkbox"/>
	• It doesn't get bored of doing the same thing again and again. <input type="checkbox"/>
	• It supports the work of individuals. <input type="checkbox"/>
	Cons
	• It could be very dangerous for humans. <input type="checkbox"/>
	• It doesn't have a sense of what's right and wrong. <input type="checkbox"/>
	• It isn't creative. <input type="checkbox"/>
	• It stops people using their brains so much. <input type="checkbox"/>
	• It's expensive to develop and use. <input type="checkbox"/>

4 a **5.02** Listen again and complete the sentences with one to three words.

- 1 It's practical, it's rational and not emotional, and _____, it can keep going, without needing a break like us humans.
- 2 On _____, of course, it doesn't make mistakes.
- 3 Well, that is pretty impressive, _____ of course in that situation – healthcare – there's a very clear goal that's for the good of people.
- 4 On _____, I worry about people using AI for negative goals ...
- 5 _____, I like to think that humans are wise as well as intelligent ...
- 6 Well, that's good to know. _____, I do have other concerns.
- 7 _____, I sometimes wonder if too much AI would make people lazy.

b Now identify the supporting (S) and contrasting (C) ideas in the sentences.

5 Complete the sentences with your own ideas.

- 1 If services like Netflix didn't make recommendations for what films to watch next, _____.
- 2 I would be worried about AI if _____.
- 3 If scientists learned more about the deepest parts of the ocean, maybe _____.
- 4 If computers felt emotions, _____.
- 5 If computers replaced doctors completely, _____.

1 Match the words below to words 1–6 to make collocations.

energy footprint materials
resources site warming

- 1 landfill _____
- 2 raw _____
- 3 alternative _____
- 4 carbon _____
- 5 global _____
- 6 natural _____

2 Match the collocations in Ex 1 to the definitions and examples below.

- 1 a gradual increase in the overall temperature of the Earth's atmosphere caused by increased levels of carbon dioxide and other polluting chemicals _____
- 2 the amount of CO₂ released into the atmosphere as a result of what an individual, organisation or community does _____
- 3 essential things and substances that our planet provides us with, for example, oil, natural gas, wood, fish, air, sunlight, stone, sand, metal, water, land _____
- 4 things and substances that are used to manufacture other things, for example, oil, natural gas, wood, stone, sand, metal _____
- 5 an area of land where rubbish is put _____
- 6 for example, solar power, wind power, hydropower (from water) _____

3 Choose the correct alternative.

Some ¹**landfill sites** / **raw materials** are created by digging huge holes in the ground.

One way to reduce your ²**consumption** / **carbon footprint** is to switch off your mobile phone overnight.

Another form of ³**alternative** / **viable** energy is geothermal energy, which is produced from the heat inside the Earth.

Over the last 20 years, the ⁴**deforestation** / **consumption** of wood has increased by 1.1% per year, mainly because of its use in house building.

What ⁵**raw materials** / **natural resources** are needed for electric car batteries?

We should use ⁶**renewable** / **viable** materials like wood, cotton and bamboo because plants can grow again after they've been cut down.

4 Complete the texts with the correct form of the words and phrases below.

consumption deforestation dispose of
endanger environmentally friendly generated by
natural resources renewable reuse viable

Our ¹_____ of gadgets, flights and fast fashion ²_____ the planet.

Around 45 million tonnes of computers, televisions, mobile phones and other electronic goods are ³_____ every year. They end up in landfill sites when much of it could be recycled or ⁴_____.

It must be ⁵_____ for industry to become more ⁶_____. For example, it could hugely reduce its carbon footprint by using ⁷_____ energy, such as energy ⁸_____ wind, water and the sun.

Trees are one of the world's most valuable ⁹_____, yet the UN's Food and Agriculture Organization estimates the annual rate of ¹⁰_____ to be 1.3 million km² per decade.

5 Complete the text with vocabulary from the lesson.

ENVIRONMENT NEWS

The future of plant-based foods

Could plant-based foods replace meat and dairy in the future?

The ¹_____ of meat is a problem for the environment, because the methane, CO₂ and nitrous oxide released in its production are all gases which contribute to ²_____.

Farming animals requires significant amounts of energy and water, and clearing land for farmland leads to ³_____. Burning forest creates CO₂ and removes trees which naturally take CO₂ from the atmosphere. Furthermore, the loss of forest ⁴_____ many plant and animal species.

Clearly, plant-based foods are a(n) ⁵_____ alternative to meat. The good news is that technology now exists that makes plant-based meat, cheese and eggs seem more lifelike, which should make them more ⁶_____ as a substitute for meat and dairy.

6 Answer the questions using ideas from the lesson.

- 1 What natural resources can be found in your country (for example, types of food, stone, oil, plants)?
- 2 How is energy generated in your country? What alternative energy sources are or could be used?
- 3 Do you think more people should become vegetarian?

7 **VOCABULARY BOOSTER** Now practise **Effects of technology on the environment** vocabulary on page 108.

1 Complete the leaflet with the words and phrases below.

could have been had never been invented was were
would not be wouldn't find wouldn't have taken

The production of plastic needs to STOP!

Many people are trying their best to reduce how much plastic they use, but what really needs to change is the amount of plastic being produced.

Fact: Plastic is produced using oil. In fact, the plastics industry accounts for about 6% of global oil consumption. As a result, the production of plastics generates enormous amounts of air pollution. If plastic ¹ _____, global warming ² _____ the problem it is today.

Fact: Most people think that when plastic is put in recycling bins, it is disposed of safely. However, only 9% is recycled globally, and the rest is dumped in the natural environment. Some of it is burned, creating more GHG emissions, and the rest of it ends up on land and in the oceans, endangering wildlife. If all plastic ³ _____ recycled or disposed of in a controlled way, the lives of millions of plants and animals ⁴ _____ saved over the last 60 years.

Fact: Plastic pollution is contributing to global warming. Until now, the Earth's oceans have absorbed up to 40% of all man-made carbon since we started using machines. Recent research, however, indicates that microplastics prevent this from happening so effectively. Perhaps if people ⁵ _____ better educated about our planet, they ⁶ _____ it for granted and treated it so badly in recent years, and we ⁷ _____ ourselves in the worrying situation we're in today.

We must call on governments now to reduce plastic production!

dump (v) throw away something, especially in a place that is not suitable
microplastics (n) extremely small pieces of waste plastic in the environment

2 **PRONUNCIATION**  5.03 Listen to and repeat the examples of linking between words in spoken English.**Consonant to vowel**

- 1 Plastic **is** produced **using** oil.
- 2 The **plastics industry** accounts **for about** 6% of **global oil** consumption.

A /j/ sound linking two vowels

- 3 **We all** use a lot of plastic.
- 4 A lot of plastic ends up in **the oceans**.

A /w/ sound linking two vowels

- 5 Oceans can't absorb carbon **so effectively** because of the amount of plastic in them.
- 6 Until now, the Earth's oceans have absorbed up **to almost** half of all man-made carbon.

3 Read the text and choose the correct alternative.

In praise of plastic

Plastic often gets bad press, but here are some positives.

Plastic lasts a long time. If water pipes all around the world today weren't made of plastic, billions of litres of water ¹**would be / would have been** wasted over the last 70 years.

Plastic is light. Cars and planes ²**would make / would have made** global warming worse in recent years if they didn't contain so many plastic parts.

Plastic does not conduct electricity. If we ³**couldn't use / couldn't have used** plastic for light switches, for example, what would we have done instead?

Plastic is hygienic. If various uses of plastic in medicine and food production ⁴**hadn't been developed / wasn't developed**, many people ⁵**wouldn't be / wouldn't have been** alive today.

Finally, renewable energy production relies on plastic. If plastic ⁶**wasn't invented / hadn't been invented**, we ⁷**wouldn't be using / wouldn't have been using** today's high-tech solar panels and wind turbines.



4 Complete the mixed conditional sentences using the verbs in brackets, paying attention to the information about what is past (THEN) and present (NOW).

- 1 (THEN, NOW) If antibiotics _____ (be discovered), I _____ (be) alive today.
- 2 (NOW, THEN) If you _____ (know) me better, you _____ (say) that.
- 3 (THEN, NOW) They _____ (offer) you the job if you _____ (not have) such a lot of experience.
- 4 (THEN, NOW) If they _____ (cut down) so much forest, more species of birds and animals _____ (live) there today.
- 5 (NOW, THEN) If we _____ (live) closer, we _____ (come) to your concert.
- 6 (NOW, THEN) There _____ (be) so much rubbish in space if people _____ (think) about space pollution in the early days of space exploration.

5 Answer the questions so they are true for you.

- 1 How would your everyday life be different if plastic hadn't been invented?
- 2 How would you be different if you had been born 500 years ago?
- 3 How would your life be different if you had grown up on the other side of the world?

1 What do you remember about the Student’s Book text? Complete the summary with the words below.

adapt to maintain their profiles
obsessed with peer group scrolling targeted

Teens have grown up with the internet and can
1 _____ new social media
platforms easily. While some enjoy and, in fact, are
2 _____ getting likes, others
want to quit social media – they dislike being
3 _____ by advertisers and the
pressure to 4 _____. Anastasia
quit social media: she prefers to see her friends face
to face rather than 5 _____
through profiles, etc. But others in her
6 _____ are worried of the
consequences of quitting.

2  5.04 Read the article and complete the sentences with an appropriate word in each gap.

- 1 Most teens in the survey felt online learning had had a _____ impact on their future.
- 2 Lauren _____ concentrate on the screen all day.
- 3 Noah liked the _____ of online learning.
- 4 Students with autism _____ online learning because it’s less stressful.
- 5 The author believes online learning _____ have a place in education.

STRATEGY Using topic sentences

Most paragraphs in a text or article have a topic sentence, which is usually, but not always, the first sentence. The topic sentence provides an overview of the main idea in that paragraph. The following sentences contain more information to develop and support that main idea.

- 3 Read the strategy above. Underline the topic sentence in each paragraph.
- 4 Read the article again and choose the correct answer: A, B or C.
 - 1 According to the survey, only a small proportion of students felt they _____.
 - A would miss the social aspect of school
 - B learned better online than in person
 - C preferred studying in a classroom to studying online
 - 2 Lauren points out that at school she _____.
 - A would do much better if her friends didn’t distract her
 - B wouldn’t have asked her teachers questions if she’d been there during the pandemic
 - C would have asked her classmates for help if she’d been there during the pandemic
 - 3 Noah thinks he ____ during the pandemic.
 - A would have done better if he’d got up early every day
 - B shouldn’t have played videos at double speed
 - C took a good approach to his studies
 - 4 Students with autism would ____ their lessons were online.
 - A be able to maximise their learning if
 - B still experience similar anxiety levels even if all
 - C get better grades than students without autism if

Classroom learning vs screen learning

Most teens enjoy spending their downtime online, but what about studying online? A recent survey shows most teens prefer in-person school, both for its academic and social aspects. Nearly two thirds found remote learning ‘worse’ or ‘much worse’ than in-person learning and felt concerned about doing less well in their studies. Over half of them worry about losing connections with friends too.

Like many teenagers, Lauren had to study remotely during the 2020 pandemic. She explains why she found it tough. ‘I hated being on a screen all day because it was hard to focus. I get a bit distracted by my friends in the physical classroom, but it isn’t a huge problem. At home, the temptation to take a break and do something different was too much. The worst thing was not being able to ask my teachers or classmates for help and having to wait for a response when I emailed my teacher a question.’

Not everyone found remote learning a problem, however. ‘I missed my peers, but home learning was OK,’ says Noah, 15. ‘I might have felt differently if we’d had “live lessons” with

a teacher online, but I could do my lessons whenever I wanted to. Sometimes I got up late, but more often I’d get up early and finish all my lessons by lunchtime. I could take a more flexible approach to the learning itself too. We had to watch a lot of science videos, and the teacher spoke really slowly, so I would play the videos on double speed. I could then spend longer on topics I found more difficult.’

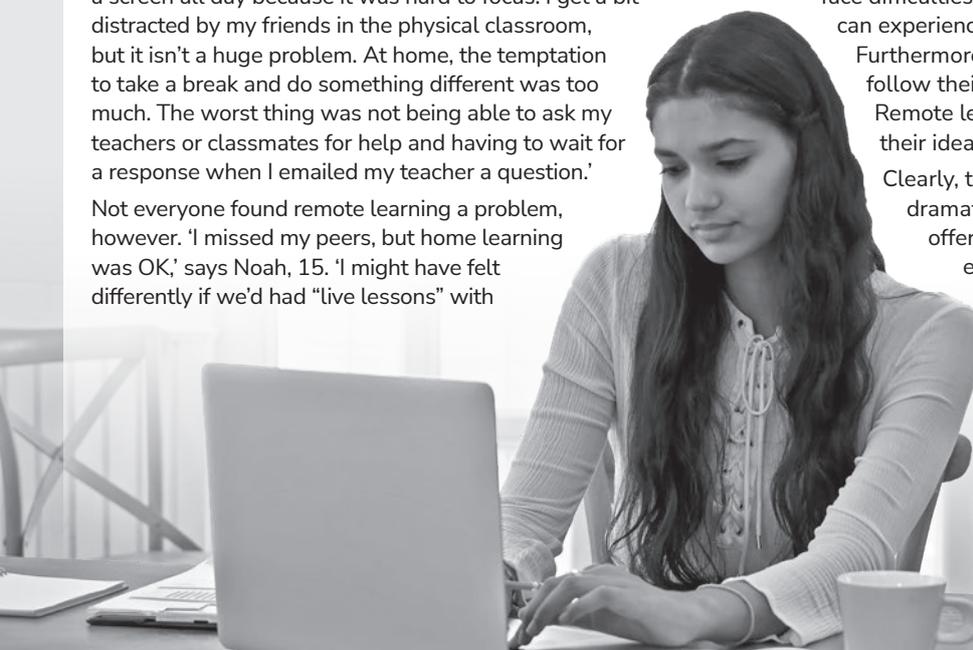
One particular group of students found virtual learning preferable to being in the physical classroom. Students with autism, who face difficulties with communication and social interaction, can experience high levels of anxiety in face-to-face lessons.

Furthermore, many of these students do best when they can follow their own interests and work at their own speed.

Remote learning benefited them by allowing them to create their ideal study schedule.

Clearly, the concept of traditional learning has changed dramatically in the last few years. Advances in technology offer more students access to cheap and flexible education. So, what’s the future of online learning?

While ‘hybrid learning’ – combining in-person and face-to-face study – is likely to become a popular option for universities and colleges, the physical classroom will always be where the most memorable learning takes place.



1 What can you remember about the podcast in the Student's Book about managing your digital footprint? Complete the sentences.

- 1 A passive transfer of information occurs when we browse the internet and visit different websites because our passive digital footprint is made up of the t_____ we leave of our browsing history.
- 2 Pay attention to your online security. Check your p_____ s_____ to be sure strangers can't see your posts and photos. Only give away things like your date of birth if you're sure it's r_____ i_____.
- 3 Delete accounts you don't use because these i_____ accounts can expose you to h_____, especially if you used a weak password.
- 4 Don't communicate online in a way that you wouldn't face to face – be r_____.
- 5 Take control of your online image. If someone t_____ you in memes or photos, remember that you can u_____ yourself. You might not want them to be seen when a potential employer is doing a b_____ c_____ on you.

2 Tick (✓) the things that you use the internet for.

- | | |
|------------------------------|--------------------------|
| A connecting with friends | <input type="checkbox"/> |
| B learning about the world | <input type="checkbox"/> |
| C helping other people | <input type="checkbox"/> |
| D improving your English | <input type="checkbox"/> |
| E expressing your creativity | <input type="checkbox"/> |

3 Read the article and match three of the topics A–E in Ex 2 to paragraphs 1–3.

- 1 _____ 2 _____ 3 _____

4 Read the article again and complete the notes with one word in each gap.

WildEarth

- You will need a device with a good internet connection and 1 _____.
- Watch some WildEarth videos and 2 _____ any questions you have to the WildEarth experts.
- Select a sunrise or 3 _____ safari.
- Enjoy your virtual trip!

Be My Eyes

- The app connects 4 _____ to 5 _____ or partially sighted users. Use the app whenever you need help.
- Sighted users: wait for a 6 _____ call. If you're too 7 _____, someone else will be able to help.

Eric Whitacre's Virtual Choir

- Register on the website and listen to the latest piece of music.
- 8 _____ singing the piece.
- 9 _____ yourself singing it.
- 10 _____ your recording to the website.
- Enjoy listening to the final performance!

5 **MEDIATION** Your friend has broken their leg and is having to spend a lot of time at home. Write an email suggesting one or two of the websites from the article that you think they might be interested in. Use the information in the text to explain the websites to your friend.

The best of life online

The internet has made our lives richer in so many ways, helping us enjoy the beauty of our planet, connect with others and celebrate the best of humanity's creativity. Here are three opportunities we could never have had without the internet.

1 WildEarth safaris

Do you dream of visiting Africa to see elephants, lions, giraffes and other animals in the wild? It may be difficult to make a physical trip, but WildEarth offers free live-stream safaris from stunning locations in Africa twice a day. Sunrise safaris take place between 6.30 and 9.30 a.m. CAT (Central African Time) and sunset safaris between 2.30 and 6.30 p.m. CAT. All you need is a device to watch the live stream on, including speakers so you can hear the sounds of the animals and the WildEarth expert talking, and a good internet connection. It's worth watching videos of previous WildEarth safaris. You can then email questions for the experts to answer live.

2 Be My Eyes

The internet makes it possible for us to support people anywhere in the world. Be My Eyes is an app that connects volunteers who can see with people who are blind or partially sighted and who need help from time to time with small, everyday tasks like reading the 'use by' date on a carton of milk, for example, or describing the colour of a shirt. Through a live video call, the volunteers guide blind or partially sighted users where to point their camera, what to focus on or when to turn on their torch and then describe what they see. Blind and partially sighted users can use the app to make a video call whenever they need help. Volunteers don't need to take a call if they're busy because fortunately the app already has plenty of volunteers who can help.

3 Eric Whitacre's Virtual Choir

You don't need to be in the same place to sing together! Eric Whitacre's Virtual Choir brings together thousands of singers from around the world to create performances through the use of technology. Once they have logged on, singers in locations all over the world can hear the latest piece that the choir is working on, and practise singing it wherever they are. They then record and upload their videos, which are all combined into a single final performance. The results are beautiful and well worth a listen!

safari (n) a trip to see or hunt wild animals, especially in eastern or southern Africa

live-stream (adj) shown on the internet as they happen

partially sighted (adj) without good eyesight

choir (n) a group of people who sing together

1 Look at the photos. What problems do these animals face?



2 **5.05** Listen to a student presentation. Match technology A–E to photos 1–3. There are two technologies you do not need.

- A drones ____
- B GPS tracking ____
- C robots ____
- D solar-powered factories ____
- E the study of DNA ____

3 **5.05** Listen again. Are the sentences true (T) or false (F)?

- 1 Even if there wasn't any pollution in the oceans, coral would still be dying. T F
- 2 Scientists have invented a high-tech device which looks like another sea creature to monitor the coral. T F
- 3 Scientists will need to develop a new device to help the coral grow again. T F
- 4 The Arabian oryx wouldn't be endangered if it weren't for climate change. T F
- 5 In the United Arab Emirates, oryx were moved to areas where they would have access to freshwater. T F
- 6 Unless BioCarbon Engineering had invented their tree-planting devices, it would be impossible to replant trees in the rainforest. T F
- 7 The tree-planting technology could result in 1 billion trees a year being planted. T F

STRATEGY Organising a presentation

When giving a presentation, it's important to ensure that you have a clear structure: introduction, main body, conclusion. Use signposting expressions to explain the purpose and structure of your presentation and to join the different parts together. In particular, make it clear when you have finished discussing one point and are starting a new one. This will make it easier for your audience to follow what you are saying.

4 a Read the strategy above. Complete the sentences with the words below.

- areas begin concludes final look
move part second subject

- 1 The _____ of my presentation today is how technology is being used to protect endangered animals.
- 2 I'll be looking at three _____ where people have found innovative solutions.
- 3 In the first _____, I'll report on how a high-tech device is helping scientists solve an underwater problem.
- 4 _____, I'll talk about a solution to a problem facing animals in desert areas.
- 5 In the _____ section, I'll tell you about an innovative solution to deforestation, which gives hope for the animals who live there.
- 6 To _____, let's consider what's happening to coral reefs in many parts of the world.
- 7 Now, let's _____ on to the desert. Here, climate change is making many areas warmer and drier ...
- 8 Finally, let's _____ at what's being done to help animals in the Amazon rainforest.
- 9 That _____ my talk.

b **5.05** Listen again and check your answers.

5 Match phrases for signposting a presentation A–I to phrases with the same meaning 1–9 in Ex 4.

- | | |
|--|---|
| A Then, in the second part, ... ____ | F To sum up, ... ____ |
| B Finally, let's consider ... ____ | G I'd like to start by talking about ... ____ |
| C This presentation will be about ... ____ | H Next, I want to turn to ... ____ |
| D Finally, I'll ... ____ | I My talk will be in three parts. ____ |
| E Firstly, ... ____ | |

6 Choose one of the topics below and prepare a three-part presentation. Follow the steps.

- Positive and negative impacts of technology on the environment in your country
- The advantages and disadvantages of plastic
- Using the internet in positive ways

- 1 Decide what areas of the topic you will talk about, and make notes about the information you will include.
- 2 Think about what you will say in the introduction, each part of the main body and the conclusion, and decide what signposting expressions you will use.
- 7 Write your presentation. When you have finished, check that you have given your presentation a clear structure, and used signposting expressions and vocabulary from this unit.

- Write down the names of some apps that you use regularly, for example, search engines, social-media apps and photo-sharing apps.
- Choose one of the apps and answer the questions.
 - What's its main purpose?
 - What functions does it have?
 - What do you like about?
 - What don't you like about it?
 - Who would you recommend it to?
- Read the review and number paragraphs A–E in the correct order.

- Match phrases 1–5 to phrases A–E which have a similar meaning.
 - It appeals to me ... ____
 - It's basically a / an ... app. ____
 - I'm particularly impressed by ... ____
 - Another slight drawback is ... ____
 - One way to enhance it would be ... ____
- It allows users to ...
- I would perhaps like to see ...
- What really stands out is ...
- It's one of my favourite websites ...
- I was a bit disappointed by ...

STRATEGY Using modifying adverbs

In a piece of writing, we often use adverbs to strengthen or emphasise a point, or to soften a negative statement.

*I think this is an **absolutely** brilliant feature.*

*The design is **slightly** disappointing.*

- Read the strategy above. **Circle** adverbs in the text that strengthen or emphasise a positive point and **underline** adverbs that soften a negative point.
- Choose the correct alternative to emphasise the positive points and soften the negative ones.



It's ¹**extremely** / **quite** well designed.

It's ²**somewhat** / **incredibly** popular among teenagers.

It's ³**quite** / **totally** game-changing.

It's ⁴**a bit** / **significantly** more user-friendly than it used to be.

It's ⁵**slightly** / **absolutely** amazing.



It's ⁶**extremely** / **quite** expensive.

It's ⁷**somewhat** / **completely** unnecessary.

It's ⁸**incredibly** / **slightly** disappointing.

It's ⁹**a bit** / **significantly** more complicated than it used to be.

It's ¹⁰**isn't especially** / **'s extremely** interesting.

- Read the advertisement. Use your answers to the questions in Ex 2 to plan your review.

★ What's your favourite app?

Write a review of an app you use regularly. Tell us why you find it useful or enjoyable, and let us know what isn't so good about it. Send your review to editor@appreviews.net.uk.

- Write your review.

- CHECK YOUR WORK** Did you ...

- use a five-part paragraph structure?
- write an introduction with a brief description of the app?
- describe the purpose and function of the app?
- include both positive and negative views, and recommendations?
- include phrases used in reviews?
- use adverbs to emphasise or soften your comments?



YOUR REVIEWS



A review of an app I like

- On the negative side, I'm not keen on the way a lot of the content looks so perfect. This is not especially helpful if your self-esteem is low, because you can end up thinking that your bedroom / clothes / cooking, etc. will never be good enough. Another drawback is that a lot of people use it to advertise products they're selling, which is slightly annoying when you just want to enjoy the images.
- Moodboard is basically a visual search engine that allows users to find up-to-the-minute ideas for things like home, fashion and food. Users can save and organise images that they like to boards, and share their ideas with other people. It also has a range of features that make it easy to connect with others, such as 'like', 'follow' and 'comment' buttons. It's incredibly user-friendly and also completely free.
- An app I really appreciate is Moodboard, which I use almost every day. I get a lot of design ideas from it, and I also use it to connect with other people. It's extremely attractive and an endless source of style ideas.
- If you are interested in style and design, I would definitely recommend using Moodboard. I would perhaps like to see a bit less advertising and a few more realistic photos, but overall I can't recommend it highly enough.
- What I like most about this app is that people share a lot of DIY (do it yourself) projects, which is great if, like me, you enjoy making things. Another positive is that you can work on boards with other people, which is absolutely brilliant if you're planning something together, like a party. Not only that, but you can also have secret boards which only you and your friends can see, so you can keep your ideas private at the planning stage.

Grammar

1 Choose the correct answer: A, B or C.

- I wouldn't go skydiving ___ you paid me \$1 million!
A even if B supposing C provided that
- Provided that you ___ the original box, you could've returned the smartwatch.
A kept B would keep C had kept
- I would be happy to play music with other people online ___ everyone had a good internet connection.
A supposing B unless C on condition that
- I wouldn't do the course ___ I could do some of it online.
A provided that B as long as C unless
- If there ___ a pandemic in 2020, I would never have spent so much time at home.
A hadn't been B wouldn't have been C wasn't
- They ___ Jack to the concert if they'd known he liked classical music.
A had invited B might have invited C invited

2 Complete the mixed conditional sentences with the phrases below.

might not be was would be would have used
wouldn't have wouldn't know

- We could have watched a film last night if there _____ Wi-Fi here.
- The company _____ your data if you hadn't completed that quiz online.
- I _____ the new software more if I found it more user-friendly.
- Scientists _____ so much about the heart if they hadn't had to develop technology for checking astronauts' hearts.
- There _____ far fewer trees on Earth if email hadn't become so popular.
- If you had gone to bed earlier last night, you _____ so sleepy now.

Vocabulary

3 Complete the sentences with the words below.

browse geek high-tech significant
streaming wearable technology

- The first mobile phones were _____ items at the time, but compared to today's phones, they were very big and heavy.
- _____ has changed the way people watch films and TV because it offers much more choice.
- Smartwatches and clothes that keep track of their wearer's health conditions are two examples of _____.
- I love finding out about all the latest technology. I'm a real _____!
- The internet has been the most _____ development in the recent history of technology.
- I used to _____ the internet for ages at the weekend, but now I spend a lot more time with my friends instead.

4 Complete the sentences.

- Don't throw that bag away. I can r _____ it when I go shopping.
- I'd like to grow all my own food, but it isn't v _____ – I'd still need to buy some items.
- The oceans wouldn't be so dirty if people had d _____ o _____ plastic more carefully over the last 60 years.
- It's terrible that so many electronic gadgets end up as waste in a l _____ s _____.
- Experts are figuring out how to use a _____ i _____ to use data to predict floods in areas that get a lot of rain.
- Companies that produce goods need r _____ m _____ like oil, wood and iron.
- Wind is a r _____ energy source.
- Plastic toothbrushes are convenient, but they aren't e _____ f _____.

Cumulative review

5 Choose the correct alternative.

Looking after our planet, looking after ourselves

We've always had severe weather events from time to time, like heavy rains and strong winds, but ¹consumption / global warming / artificial intelligence is now ²endangering / disposing of / generating the lives of millions of people.

If we ³would have paid / paid / had paid more attention to climate change, we ⁴didn't / couldn't / wouldn't find ourselves in this situation today, but the truth is we are now facing a growing number of natural disasters.

On the positive side, ⁵gadgets / advances / geeks in technology can help experts predict and manage these events. The wildfires that hit California in 2020, for example, ⁶would have destroyed / would destroy / might destroy much larger areas of forest ⁷unless / providing / if firefighters hadn't been able to use ⁸sophisticated / significant / viable drones to map the fires and use fire-stopping technology.

However, we cannot rely on technology to save the planet. ⁹As long as / Even if / On condition that experts had all the time and money in the world, they couldn't fix all the damage we have done. According to recent reports, the ¹⁰updates / consumption / deforestation of energy around the world is likely to increase by between 50% and 100% by 2050. It's therefore essential that we develop innovative technology to use more sources of ¹¹wearable technology / raw materials / alternative energy. We must take all action possible to reduce our ¹²natural resources / carbon footprint / landfill sites.

REFLECT Think about the following questions.

- Which lesson in this unit was your favourite? Why?
- Which grammar points did you find most difficult? Why?
- How could you use the internet in a positive way that you haven't tried before?