

Reading

1 You are going to read an article about four inventions. Read the text quickly and answer the questions.

- 1 What are the four inventions?
- 2 Where were they invented?

Reading and Use of English Part 7

2 Multiple matching. Read the article again and for questions 1–10, choose from the four inventions (A–D). The inventions may be chosen more than once.

Which invention

- | | | |
|---|--------------------------|--------------------------|
| changes the temperature of something? | <input type="checkbox"/> | <input type="checkbox"/> |
| helps with communication? | <input type="checkbox"/> | <input type="checkbox"/> |
| gives something a pleasant smell? | <input type="checkbox"/> | <input type="checkbox"/> |
| works in an unpredictable way? | <input type="checkbox"/> | <input type="checkbox"/> |
| only lasts a certain amount of time? | <input type="checkbox"/> | <input type="checkbox"/> |
| makes its owner feel more comfortable? | <input type="checkbox"/> | <input type="checkbox"/> |
| displays written information? | <input type="checkbox"/> | <input type="checkbox"/> |
| moves on its own? | <input type="checkbox"/> | <input type="checkbox"/> |
| helps people to save time? | <input type="checkbox"/> | <input type="checkbox"/> |
| changes one form of information into another? | <input type="checkbox"/> | <input type="checkbox"/> |

3 Find the words in the text which mean:

- 1 a short sleep (para A)
- 2 left in liquid for a long time (para B)
- 3 smell (x2, para B)
- 4 a piece of material that goes around an animal's neck (para C)
- 5 high-pitched animal sounds (para C)
- 6 studied (para C)
- 7 confident, not submissive (para C)
- 8 pieces of equipment designed for a particular job (para D)

Weird and wonderful inventions

A Do you really dislike getting out of bed? Do you ignore your alarm clock or push the snooze button 20 times before you finally get up? Now there's a new device that will have you out of bed and running round the room before you can say 'Time to get up!' Gauri Nanda from the Massachusetts Institute of Technology in the USA has invented a device called 'Clocky'. It's an alarm clock that runs away and hides if you don't get out of bed on time. When the alarm sounds, you can snooze once. If you still don't wake up, Clocky falls off the bedside table onto the floor and races away from the bed on rubber wheels. It bumps into objects and changes direction until it finally stops – somewhere far enough away from the bed that its owner has to get up to find it when the alarm sounds a second time. The clock is programmed so that it won't land in the same spot twice. It all ends up being a bit like a game of hide-and-seek.



B Are you the kind of person that goes to school all day, plays sport in the evening and gets clothes dirty faster than you can wash them? If the answer is 'yes', perhaps you need self-perfuming clothes. The idea was first invented in South Korea by inventor Hyuk-ho Kwon, who started producing and selling business suits with an aroma of pine, lavender and peppermint. The cloth is soaked in a special chemical that gives off a scent when the wearer moves or gets bumped in a crowd. Apparently this aroma stays in the suit – even through 15 to 20 dry cleanings. So, if you can't wash clothes every time you wear them, this could keep them sweetly scented for quite a long time!



C Every dog owner knows the importance of understanding their pet. The problem is that sometimes trying to understand what your dog wants proves impossible. Not anymore!



With the 'Bow-Lingual Dog Translator', you can know what your dog is saying to you every time. The device, which was invented by a group of experts in Japan, is computer-based. It has a wireless microphone that attaches to your dog's collar and a handset with a screen. Barks and yelps are transmitted to the handset, analysed and then placed into one of six emotional categories: happy, sad, nervous, frustrated, needy or assertive. Once the dog's emotional state is recognised, the Bow-Lingual selects a phrase belonging to that category and shows it on the screen. So you may read things like 'I feel great!' or 'Play with me!' What a great way to find out what your pet is thinking!

D Imagine it's a hot summer day and you've been busy on your feet for hours – maybe sightseeing, or shopping in town. Your feet are hot and they hurt. If only you could make them feel better and cool them down. You could wear sandals of course, but not everybody likes sandals and they aren't always totally pleasant to wear. Now you can try a pair of 'Cool Breeze Shoes'! Invented in Japan, these are air-conditioned shoes. They have a number of heat-exchange devices built into the bottom, so every time you take a step, you set off a device that forces cool air up into the shoe! And this means that the further you walk, the cooler your feet get. Just imagine how great that would feel!



Grammar 1

-ing form vs infinitive

4 a Write the words in the table.

decide consider suggest choose miss
manage finish would like hope spend time

verb + -ing form	verb + infinitive

b Choose two words from each column in Ex.4a and write sentences using them.

-
-
-
-

5 Complete the sentences with the correct form of the verbs below.

read revise see fall go wait help record

- Mel had promised us tidy the house, but she's gone out.
- for exams is never fun, is it?
- My phone uses a fitness app how much physical activity I do every day.
- This new safety belt will prevent climbers from
- If you get bored when you're here, there are lots of magazines in that cupboard.
- Are you looking forward to on holiday next month?
- My pet dog always looks happy me!
- Come on, let's go. I'm tired of here.

6 Tick (✓) the correct sentences and correct the mistakes in the other sentences.

- Can doctors use this help patients at the scene of an accident?
- What time do you expect to arrive home?
- Do you mind help me to carry these boxes?
- I've never been keen on watch horror films.
- Dan didn't seem being annoyed when we arrived late.
- Inventing something really useful can make you rich.
- This is a great opportunity learning if you're interested in science.

Corrections

-
-
-
-
-

verb + -ing form and infinitive

7 Match each pair of sentences to their possible contexts.

- 1 I remember meeting Jack.
- 2 I remembered to meet Jack.
- a I sometimes forget to meet Jack, but on this occasion, I didn't forget.
- b I met Jack a while ago and that memory is very clear.
- 3 I stopped to buy some chocolate.
- 4 I stopped buying chocolate.
- a I was hungry so I bought some chocolate to eat.
- b I used to eat chocolate, but now I don't buy it anymore.

8 Complete the sentences using the -ing form or the infinitive of the verb in brackets.

- 1 Maggie went on (talk) in the exam, even after the teacher had warned her.
- 2 Although Mark Zuckerberg dropped out of Harvard, he went on (become) successful.
- 3 We regret (inform) you that you have not been selected for an interview.
- 4 My dad regrets (not go) to university.
- 5 She's completely forgotten (meet) Tom. It was such a long time ago.
- 6 Oh no! I think I forgot (lock) the car.
- 7 They really didn't mean (offend) you. It was an innocent joke.
- 8 Meeting up with Steve means (drive) 30 minutes outside of town. It's too far.

Vocabulary

Compound nouns: technology

9 Choose the correct alternative.

- 1 Laura was out, so I left a *voicemail/softmail* on her phone.
- 2 Have you got a big social *media/network* of friends online?
- 3 I've downloaded a great new piece of *hardware/software*.
- 4 They don't know who launched the *cyber/e-*attack on the website, but it did a lot of damage.
- 5 When's your *Mobile/Information Technology* class?
- 6 By wearing these special glasses, you will be able to enjoy virtual *gaming/attack*.
- 7 My computer was affected by a virus sent by *email/snail mail*.
- 8 Some amazingly realistic digital worlds have been created using *virtual/information* reality.
- 9 *Spyware/Mobile technology* can be used to access people's computer passwords and private details.

Talking about technology

10 Replace the underlined words with the correct form of the words and phrases below.

stream print out drag and drop plug in
scroll down log in switch off crash set up

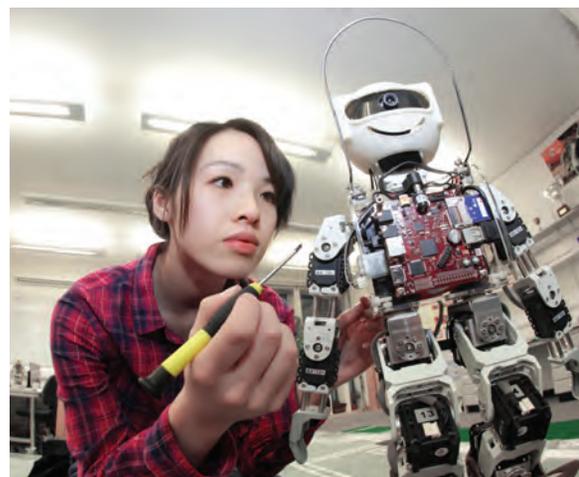
- 1 My computer is very slow and it often stops working
- 2 You have to use your mouse to move those words into the boxes.
- 3 Type your user name and password to view this website.
- 4 Do I need to get a paper copy of my essay for the teacher, or just email it to her?
- 5 I want to move to the bottom of the page, but my mouse has stopped working.
- 6 Don't shut down the computer because Mum wants to use it.
- 7 We never download films from the Internet, but we often watch them online.
- 8 Why are they creating a new computer network for the school?
- 9 My laptop is out of power so I need to connect it to the power supply

Listening

11 1.13 You will hear people talking in eight different situations. Before you listen, read the questions and options in Ex.12 and match them to these topics (a–h).

- a listening to music
- b shopping
- c making something new
- d appearing in a programme
- e the reason for someone's success
- f crime
- g changing career
- h a show about science

Then listen and check your answers.



Listening Part 1

12 1.13 Multiple choice. Listen and for questions 1–8, choose the best answer (A, B or C).

- You hear two friends talking. How does the boy know what's at the technology exhibition?
 - His cousin works there.
 - He's read some information about it.
 - He's already been to the exhibition.
- You hear somebody talking on the radio about a reality TV show. What are the people on the show allowed to have?
 - live animals
 - a gas fire
 - tinned vegetables
- You hear a young person being interviewed on the radio. What has he done?
 - designed a new computer game
 - started an online business
 - written for an entertainment magazine
- You hear two friends talking about a competition. What is the girl planning to do?
 - finish her design before the 5th
 - give up on her idea for an invention
 - enter the competition after it officially ends
- You hear somebody talking on the radio. What was stolen?
 - most of the school's computers
 - a couple of computers
 - cash and computers
- You hear two friends talking about going into town. What does the boy want to do?
 - buy his brother a phone
 - get a refund on his broken phone
 - exchange his phone for something else
- You hear two friends talking. What does the girl recommend?
 - using an app to stream music
 - being careful when downloading music
 - asking her brother for advice
- You hear a woman talking about her job. Why is she leaving?
 - She wants to do a more challenging job.
 - She's fed up with working with computers.
 - She finds the job uninteresting.

Word power

Suffixes to form nouns (2)

13 Complete the sentences with nouns formed from the words below. There are two extra words which you do not need to use.

prefer hesitate attend improve independent
elegant ill distant disappoint rely

- at tomorrow's lecture is compulsory for all first-year students.
- On July 4th, Americans celebrate their from England.
- It was a big when the singer Rihanna cancelled her European tour.
- My aunt caught a strange while she was abroad, but luckily she's fine now.
- If it's a clear day you can see the mountains in the about 50 km away.
- We can go to an Italian or a Thai restaurant tonight. Do you have any?
- Our teacher was pleased to see a big in our test marks.
- When the fire bell rang, everyone left the class without a moment's

14 Match the sentence halves. Then complete the sentences with nouns formed from the words in brackets.

- I haven't read Tolstoy in Russian,...
 - At the wedding, we wished our cousin and her new husband...
 - In the play, Mary is cruel to her sister,...
 - When we heard that Brad Pitt was coming to our school,...
 - People with university degrees often get better jobs. This shows...
 - In Shakespeare's plays, many of the characters seem strong, but...
 - Our house is very small, so my parents...
 - When Lucy fell off the stage in the school play, it...
- but then feels sorry and asks for (forgive).
 - that (educate) can be very important.
 - caused her a lot of (embarrass).
 - they often have an important (weak).
 - but I have got an English (translate) of one of his novels.
 - want to build an (extend).
 - there was a lot of (excite).
 - (happy) for their future together.

Prefixes and suffixes review

15 Complete the sentences with an adjective formed using a base word and a prefix, a suffix, or both.

Base comfort patient suit convenient
help employ satisfy active agree

Prefix un- in- im- re- dis-

Suffix -ity -ful -ment -able -tion -ence

- 1 Don't be so! Can't you wait for five minutes?
- 2 We expressed our with the meal by complaining to the café owner.
- 3 Thank you for being so and tidying up after the party.
- 4 My sister lost her job, but they decided to her when they realised the accident wasn't her fault.
- 5 is one of the main causes of obesity and heart disease.
- 6 Lucy is a vegetarian, so this barbecue food is for her.
- 7 Ryan and Jess had a about who would pay for the pizza.
- 8 I can't meet you on Monday as planned. I'm so sorry for the
- 9 This seat is really, It makes my back ache.

Reading and Use of English Part 3

16 Word formation. For questions 1–8, read the text below. Use the word given in capitals at the end of some of the lines to form a word that fits in the gap in the same line.

Grammar 2

Question tags

17 Tick (✓) the correct sentences and correct the mistakes in the other sentences.

- 1 Brad won the race, didn't he?
- 2 Sally hadn't been waiting long, hadn't she?
- 3 You can all hear me, can't you?
- 4 The concert's tonight, isn't there?
- 5 Let's invite Steven to the party, let us?
- 6 Somebody's going to help me, isn't he?

Corrections

- a
- b
- c
- d

18 Complete the sentences with the missing word.

- 1 We'd better leave now, we?
- 2 You'd rather listen to a podcast than the radio, you?
- 3 Everyone's here, they?
- 4 There's no one in the house, is?
- 5 You'd studied French before you went to France, you?
- 6 Don't forget to phone me, you?
- 7 You haven't finished your homework yet, you?

DRIVERLESS CARS

Many people would feel a little bit ► worried about travelling in a driverless car. However, this kind of transport is already a (1), Recently, a driverless car drove around an imitation town in California, winning an 85-kilometre race against ten other driverless cars – an impressive (2) for the team who built the car.

Since only six of the eleven cars completed that race, clearly the technology is still (3), but the car industry is watching closely as improvements are being made. Some manufacturers even predict that (4) driverless cars could be a common sight on roads by 2025.

There are plenty of advantages to driverless cars. Apart from giving you the (5) to sit back and eat your breakfast while your car does the driving, robots are never (6), unlike humans. Lack of (7) is a major cause of accidents, but this is only a (8) in humans, not robots.

- WORRY
- REAL
- ACHIEVE
- PERFECT
- RELY
- ABLE
- CARE
- CONCENTRATE
- WEAK



Reading and Use of English Part 1

- 19 Multiple-choice cloze.** For questions 1–8, read the text below and decide which answer (A, B, C or D) best fits each gap.

THE CHANGING FACE OF THE WEB

In the early days, the Internet was simply a great way to get ► **information** about almost any topic imaginable and to send emails. It's still very (1) for these things, but there have been huge developments too. The first was online shopping, (2) really started when Jeff Bezos founded Amazon.

The next big step was social (3) If Mark Zuckerberg hadn't started Facebook, somebody else would probably have (4) a similar idea, but at the time it was a revolution. Suddenly you could (5) in touch with old friends and contact your friends' friends – creating a much wider social circle.

(6) more people together is the key idea behind later successful websites like Freecycle and Airbnb. These sites allow people to contact complete strangers in order to share, give away and rent things. And that helps the economy and the environment, (7) it? But if the pioneers of the last two decades hadn't led the way, none of these amazing websites (8) exist.



- A message B knowledge **C information** D search
 1 A user B useful C useless D using
 2 A which B it C that D who
 3 A contacts B networking C friends D sites
 4 A found B had C thought D made
 5 A become B rest C continue D keep
 6 A Bringing B To have C Meeting D To take
 7 A wasn't B hasn't C isn't D doesn't
 8 A will B would C should D shall

Writing

- 20 Complete the second sentence so that it has a similar meaning to the first sentence, using reduced clauses.**

- Facebook was invented in 2004 and it revolutionised the way we socialise.
 in 2004,
 the way we socialise.
- Most people stream movies because they find it more convenient than DVDs.
 than DVDs, most people stream movies.
- There are many people who buy goods online rather than in the shops.
 There are online rather than in the shops.
- Alex wanted more comfortable feet, so he's just bought some Cool Breeze shoes.
 more comfortable feet, just bought some Cool Breeze shoes.
- The first computing device, which was designed by Charles Babbage, was never built.
 by Charles Babbage, was never built.
- I certainly wasn't convinced when I heard about driverless cars for the first time.
 driverless cars for the first time,

Writing Part 2

- 21 Article.** Write your answer in 140–190 words in an appropriate style.

You see this advertisement in an English-language magazine for teenagers.

Articles needed

Young Science magazine is looking for articles from young people to publish as part of its new series about inventions. Write an article about what you think is the greatest invention of the last 100 years. Describe it and explain why it's so important.

Write your article.