

3 Power to the people Extra practice

3.1 Vocabulary

Adjectives: technology

1 * Choose the correct option.

- 1 When you eat sugar, a **mechanical** / **chemical** reaction in your body produces energy.
- 2 The **computer-generated** / **wireless** images in modern films are absolutely incredible.
- 3 I love new technology and I always want to have the latest **chemical** / **high-tech** devices.
- 4 One of the most common forms of **alternative** / **high-tech** energy today is solar power.
- 5 We can send emails when we're travelling because there's a **wireless** / **computer-generated** internet connection on the train.
- 6 Marcus has always been fascinated by machines and his dream is to become a(n) **mechanical** / **alternative** engineer.

2 ** Complete the text with the words.

adaptable electronic energy-saving innovative
solar-powered sustainable

You don't have to be an adult to have amazing, new ideas about science. Here are three teenagers and their (1) designs:

Anna Simpson has invented a plastic robot that can detect toxic chemicals. This clever idea will be (2) to a variety of industrial situations.

Ankush Gupta's invention allows you to control the amount of power used by the (3) devices in your home. This (4) system will certainly save you money.

Electric and (5) cars are examples of (6) transport for the future. However, Jun Bing and Alec Wang's device makes traditional cars cleaner, by collecting carbon dioxide from them. The CO₂ can then be stored or used.

3 *** Complete the adverts with the correct technology adjective.

Save up to 80% on the cost of electricity with our (1) light bulbs.

Download our Wi-fi app and enjoy (2) internet when you're out and about.

Download our latest 3D graphics software and have a go at creating your own (3) images.

Charge your mobile phone for free with our powerful, (4) charger – all you need is sunlight!

Come to the Science Fair this weekend and see all the latest inventions. You'll be amazed at the (5) ideas!

Do you prefer a battery-powered watch or a traditional (6) one? Whatever your taste, come to *BestWatch* for the best selection in town!

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3.1 Grammar

The passive: past, present and future

1 * Write the words in the correct order to make sentences.

- 1 were / Solar panels / last year / installed / .
.....
- 2 in China / made / your smartphone / Was / ?
.....
- 3 today / aren't / Petrol buses / used / in many cities / .
.....
- 4 generated / Kinetic energy / movement / by / is / .
.....
- 5 going to / are / replaced / next year / be / Our computers / .
.....
- 6 be / will / Where / the new car / manufactured / ?
.....

2 ** Write sentences with the correct past, present or future passive form. Use *by* if necessary.

- 1 The competition / win / a 16-year-old girl (past)
.....
- 2 Energy drinks / not sell / in our school (present)
.....
- 3 Millions of lives / change / this small device (future – *will*)
.....
- 4 Energy-saving light bulbs / use / in many houses (present)
.....

- 5 How much energy / produce / in thirty minutes ? (future – *going to*)
.....
- 6 the scenes in that film / generate / a computer ? (past)
.....

3 * Rewrite the text using the past, present and future passive. Use *by* if necessary.**

They don't broadcast music in the normal way at silent discos. So how do people hear the music? Everyone wears wireless headphones. These detect a signal and people hear the music.
People used the term 'silent disco' for the first time in 2005 at Glastonbury Festival in England. They wore headphones then to avoid breaking local noise restrictions. *The Oxford Dictionary Online* officially recognized the term in 2011.
In the future, they will adapt silent disco technology to other forms of entertainment. We are going to see more and more silent events, such as silent theatre and silent opera.

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3.2 Vocabulary

Verbs: functions

1 * Complete the definitions with the words.

absorb process repair rest transport

- 1 When you , you relax.
- 2 When you something, you take it in.
- 3 When you something, you move it.
- 4 When you something, you take time to think about it.
- 5 When you something, you fix it.

2 ** Complete the sentences with the correct verbs in the correct form.

burn release

- 1 When fuel is , how many gases are into the air?

boost perform

- 2 Ralph well in a test last week, so it's really his confidence.

crash process

- 3 I've got problems with my laptop. When it a lot of information, it

3 *** Answer the questions so that they are true for you. Use the underlined words in your answers.

- 1 Which food do you eat to boost your energy levels?

.....
.....

- 2 What do you do to perform well at sport?

.....
.....

- 3 Where do you usually rest when you get home from school?

.....
.....

- 4 When did a computer last crash when you were using it? What did you do?

.....
.....

- 5 How long does it take you to absorb new words and expressions in English?

.....
.....

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3.2 Grammar

Reflexive pronouns, emphatic pronouns, *each other* and *one another*

1 * Choose the correct option.

- 1 Rebecca made **yourself** / **herself** a new dress.
- 2 My grandparents look after **one another** / **oneself**.
- 3 Michael didn't help me with it. I did it **myself** / **himself**.
- 4 How often do your friends look at **themselves** / **ourselves** in a mirror?
- 5 Our cat washes **oneself** / **itself** several times a day.
- 6 Think of some innovative ideas **each other** / **yourselves**.

2 ** Tick (✓) the sentences with the correct underlined words. Correct the wrong ones.

- 1 It's incredible how the body repairs himself while sleeping.
.....
- 2 Supportive friends help themselves with problems.
- 3 I've invented an energy-saving device myself.
- 4 You should talk to one other more.
- 5 We made the cake ourselves.
- 6 He's just bought yourself the latest wireless headphones.
.....

3 *** Complete the sentences with the correct reflexive or emphatic pronouns or *each other* / *one another*.

My dad has just bought a new car that can park (1) I didn't believe it (2) when he told me, but it's true. Once he presses the parking button, he has to operate the foot pedals (3) , but the car does the rest. It's amazing!

Martha and Rose are really good friends and they hang out together a lot. In fact, they hardly do anything by (4) They have a lot of fun because they're always telling jokes and making (5) laugh. They only have to look at (6) and they burst out laughing.

Drinking water helps us to think and concentrate better, so our English teacher always tells us to keep (7) hydrated. She drinks a bottle of water (8) during the class. She recommends adding lemon juice to it if you don't like drinking it by (9)