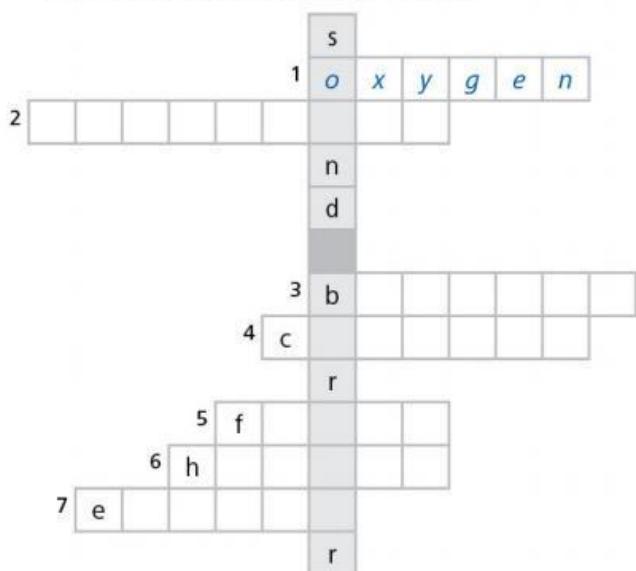


## Space debris

1 Read the sentences and write the words in the crossword. What is the hidden word?



- 1 We need this gas to breathe.
- 2 This large piece of material fills with air and helps the wearer fall slowly to the ground.
- 3 A large bag filled with gas or air so that it can float in the air.
- 4 The part of a spacecraft which contains the astronauts.
- 5 Physical power which moves something.
- 6 A gas which is lighter than air and is often used to make things float.
- 7 A machine which produces power to make a vehicle move.

The hidden word is: \_\_\_\_\_.

2 Complete the words in the sentences.

- 1 After jumping from the plane, Sam opened his p a r a c h u t e and soon landed safely on the ground.
- 2 The f \_\_\_\_\_ e astronauts feel when they take off from Earth is very powerful.
- 3 The astronauts all felt nervous as the c \_\_\_\_\_ s \_\_\_\_\_ left the rest of the spacecraft.
- 4 We need o \_\_\_\_\_ g \_\_\_\_\_ to breathe.
- 5 The car has a very powerful n i \_\_\_\_\_ and can go from 0 to 100 kilometres per hour in nine seconds.
- 6 If you travel faster than 767 kilometres per hour, you break the s \_\_\_\_\_ d b \_\_\_\_\_ r.

3 4) 5.1 Listen to the first part of a podcast and choose the correct answer.

What is space debris?

- a type of satellite
- parts of old spaceships, satellites, etc. orbiting the Earth
- everything that's in orbit around the Earth



4 4) 5.2 Listen to the rest of the podcast and tick the topics which are mentioned.

- the number of small pieces of debris
- the problems large debris can cause
- missions to other planets
- the most dangerous area
- space debris falling to Earth
- Earth's orbit around the Sun
- cleaning up the debris

5 4) 5.2 Listen again and complete the notes.

#### Space debris

- more than 170 million pieces of debris smaller than 1 cm
- just one piece of debris can damage a satellite
- International Space Station (ISS) uses Whipple shields to make debris smaller
- nearly 30,000 pieces larger than 1 cm
- some larger pieces can survive the temperatures of the atmosphere
- on average, one piece has landed on Earth every day for last 6 years
- we don't clean it up because it's too dangerous

# 5.6 Speaking

## Instructions

### 1 5.3 Listen and repeat the phrases.

#### SPEAKING Instructions

##### Giving instructions

First, open the app. Second, point your phone at the sky. After a few minutes, / After that, / Then / Next, watch what happens. The last thing you need to do is / Finally, record the result. Never / Always check the program. You / We need to check the light is on. I / We have to check the light is on. It's important (not) to / Try (not) to fly it fast.

##### Responding to instructions

That seems fun / easy. Of course. OK. Sure. No worries. No problem. What next? Now what? Then what do I do? I hope it works / I get it right.

### 2 Match the sentence halves.

- 1  b First,
- 2  After
- 3  Raise the drone slowly. Try not
- 4  Try simple moves at first. After a
- 5  That seems
- 6  Then what

- a to lift it up too fast.
- b turn the drone on.
- c few minutes, you can try something more difficult.
- d do I do?
- e easy.
- f that, open the app on your phone too.

### 3 Complete the dialogues with the words below.

always hope important need second

- 1 A: What do I do after that?  
B: Second, check all the pieces are there.
- 2 A: How do I use this laptop?  
B: Just turn it on – there's no password. But you \_\_\_\_\_ to shut it down when you've finished.
- 3 A: It's \_\_\_\_\_ to read the instructions first.  
B: Yes, of course.
- 4 A: And finally, put this piece on top.  
B: OK, I \_\_\_\_\_ I get it right!
- 5 A: Do I make a hole here?  
B: Yes, but \_\_\_\_\_ use safety glasses to protect your eyes.

### 4 Choose the correct option.

Gran: Can you help me install an app on my phone, Tom?

Tom: Of course, Gran, let me see. OK, so 1 first / second, you need to open the app store. Here it is.

Gran: OK, that 2 checks / seems easy.

Tom: After 3 that / next, you need to search for the name of the app in the search bar. See?

Gran: OK. Then what 4 will / do I do?

Tom: You see where it says 'Get'? Just tap on that. But 5 never / always check it's a free app, not an expensive one you have to pay for.

Gran: 6 Of / For course. I don't want to pay for apps!

### 5 5.4 Complete the dialogue with one word in each gap. Listen and check.

Chris: Why on earth are you pointing your phone at the sky, Tiana?

Tiana: It's this new app. It lets you identify planets and stars.

Chris: Really? How does it work?

Tiana: 1 First, you open the app, like this.

2 \_\_\_\_\_, you point it at a part of the sky. See? There's the moon.

Chris: That 3 \_\_\_\_\_ easy. Can you search for specific things?

Tiana: Sure. What do you want to see?

Chris: Um ... Jupiter.

Tiana: 4 \_\_\_\_\_ worries. We just type it in here ... Oops! Obviously, I 5 \_\_\_\_\_ to spell it properly, of course!

Chris: Ha! Yes, that helps. 6 \_\_\_\_\_ what do I do?

Tiana: You see that arrow? You need 7 \_\_\_\_\_ move the phone in that direction until you see Jupiter.

Chris: Oh yeah, there it is! This app is cool! I'm going to download it.

Tiana: Have fun! But 8 \_\_\_\_\_ point it at the sun. If you use it in the daytime, it'll hurt your eyes.