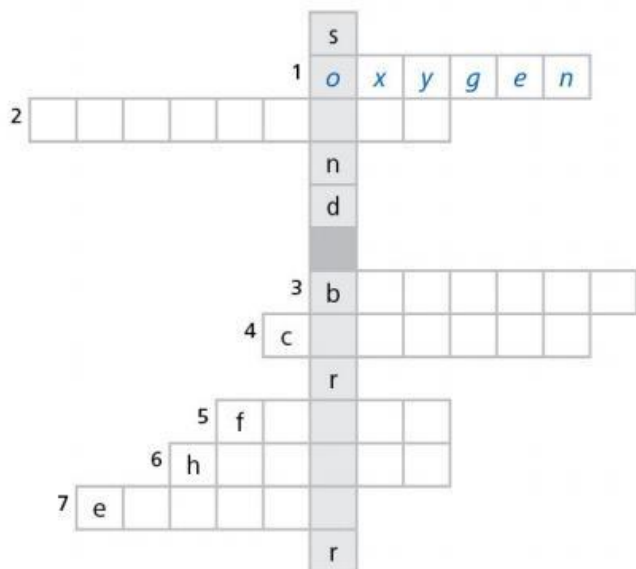


5.5

Listening and Vocabulary

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 par 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 5.1 Listen to the first part of a podcast and choose the correct answer.

What is space debris?

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



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

- 1 ☐ the number of small pieces of debris
- 2 ☐ the problems large debris can cause
- 3 ☐ missions to other planets
- 4 ☐ the most dangerous area
- 5 ☐ space debris falling to Earth
- 6 ☐ Earth's orbit around the Sun
- 7 ☐ cleaning up the debris

- 5 5.2 Listen again and complete the notes.

Space debris

- more than ¹170 million pieces of debris smaller than 1 cm
- just one piece of debris can damage a ²_____ or satellite
- International Space Station (ISS) uses Whipple shields to make debris ³_____
- nearly 30,000 pieces larger than ⁴_____ cm
- some larger pieces can survive the ⁵_____ 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 ⁷_____

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.