3 Up into space

1 Read and complete.

astronauts   computer   control panel   gravity   handles

_____ train for many months before they go to space. They practise moving in a zero _____ chamber. They wear a heavy spacesuit for several hours every day. They use _____ when they practise space walks. They learn to use the _____ and to programme the _____ .

2 🎧 012 Listen and tick ☑.

IN A SPACECRAFT, THE ASTRONAUTS ...

… play football.	☐	… do experiments.	☐
… eat three meals a day.	☐	… go on spacewalks.	☐
… cook.	☐	… do the cleaning.	☐
… have a shower.	☐	… sleep.	☐

3 Read and number the instructions for a spacewalk.

CODE CRACKER ⚙⚙

☐ Use the handles outside the shuttle.

☐ Attach the safety rope.

☐ Check the control panel.

☐ Open the portal.

☐ Put on a spacesuit.

☐ Use the handles inside the shuttle.

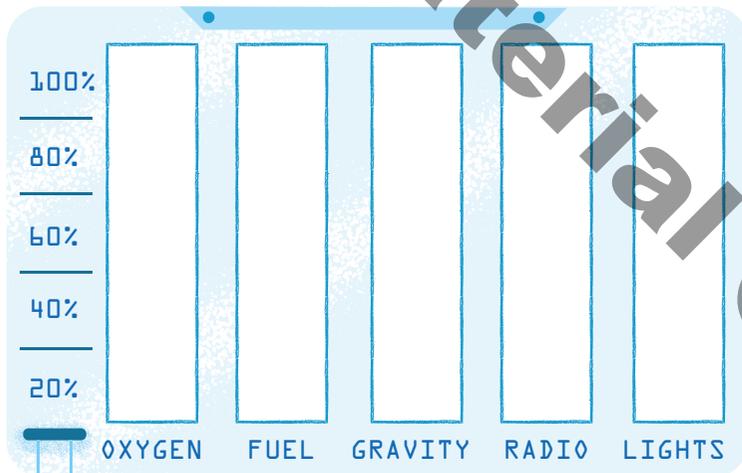# Lift off!

I will learn words to describe a control panel.

1 Read and complete.

control panel Earth engine fuel gravity handles lights oxygen planet radio screen seat

The spacecraft is travelling to another _____ .
The spacecraft has got many parts. It's got an
_____ for firing the shuttle into space. There are _____ tanks for the engine.
There are _____ tanks for breathing. There are a lot of _____ to see the
controls. There's a _____ for the computer and a _____ for communicating with
_____ . There's a _____ for checking supplies. There's a _____ in front of
the instruments for the astronaut. There are _____ for moving in zero _____ .

2 🎧 013 Listen and colour.


```
100%
80%
60%
40%
20%

OXYGEN  FUEL  GRAVITY  RADIO  LIGHTS
```

EXTRA VOCABULARY

3 💡 Look and write.

cable camera keyboard screen USB ports

1 _____
2 _____
3 _____
4 _____
5 _____

4 Ph Complete the riddles. Then tick ☑ the answers.

clear ear hear here near year (x2)

1 You can _____ loud and
_____ but it isn't your
_____ . What is it?

a a radio ☐
b a screen ☐

2 The new _____ is
_____ . The old
_____ is _____ .
What's the date?

a 31st December ☐
b 1st January ☐

I can use words to describe a control panel.

Language lab

GRAMMAR: *WILL* AND *WON'T*

*I will learn to talk about the future using **will**.*

1 🎧 014 Listen and circle.

A city for the future

1 All buildings in the city will / won't be six floors high.

2 People will / won't grow food on the top of the buildings.

3 People will / won't use water tanks to collect rainwater.

4 The air will / won't be very clean. People will / won't use oxygen tanks.

5 People will / won't use cars. They will / won't travel by bus.

6 People will / won't use plastics. They will / won't recycle food waste.

2 Tick ☑ eight features for a flat in the future.

	bedroom	kitchen	living room	garden
computer				
screen				
radio				
robot				
smart lights				

3 Look at 2 and complete.

CODE CRACKER ⚙️⚙️⚙️

My flat

1 The _____ _____ have _____ .

2 The _____ _____ have _____ .

3 The _____ _____ have _____ .

4 The _____ _____ have _____ .

5 The _____ _____ have _____ .

6 The _____ _____ have _____ .

Key

1 🟢 Use the green words in 2.

2 🟡 Use *will* or *won't*.

3 🔵 Use the blue words in 2.

4 💬 **Ask and answer with a partner. Take notes.**

Name: _____	Features of flat			
	bedroom	kitchen	living room	garden
computer				
screen				
radio				
robot				
smart lights				

Will your flat have a robot?

Will the robot be in the garden?

Yes, it will.

No, it won't. It will be in the kitchen.

5 ⚛️ **Choose a room from your flat. Make a model and write a description.**

1 Find a shoebox. Cut off the lid.

2 Cut out the door and the windows.

3 Paint the inside of the box.

4 Use recycled materials to make the furniture, for example, bottle tops, old card, aluminium foil.

5 Paint the furniture. Glue it into position.

6 Use Plasticine for extra features.

My _____

This will be the best _____ in the city.

It will _____.

It won't _____.

I made the model with _____.

I can talk about the future using will .

Story lab

I will read a story about a space colony.

COLONY 369

1 Read and answer.

1 Why are people living in a space colony? _____

2 What is the problem in the space colony? _____

3 Why are the Earth robots worried about the humans? _____

4 Why do the Earth robots open the secret door for the children? _____

5 Where can the children play on Earth? _____

6 What do the adults from Colony 369 promise? _____

2 Read and complete with the number of days.

MATHS ZONE

1 When there are 200 people in the space colony, they've got oxygen for _____ days.

2 When there are 100 people, they've got oxygen for _____ days.

3 When there are 400 people, they've got oxygen for _____ days.

4 When there are 50 people, they've got oxygen for _____ days.

OXYGEN:
30 Days for 200 People

OXYGEN:
30 Days for 200 People

3 Find words in the story that mean …

1 … to make very, very dirty. _____

2 … a new city a long way from the capital. _____

3 … a moving machine with a computer programme. It does human tasks. _____

4 … to make something so bad it cannot survive. _____

5 … to send and receive a message. _____

6 … to find a solution. _____

4 ✿ Make a promise tree for the future.

1 Use colouring pens to draw a big tree trunk with a lot of branches.

2 Use green paper and cut out leaves.

3 Write a promise for the future on a leaf.

4 Ask your friends and family to write promises on the leaves, too.

5 Glue the leaves on the tree.

I won't use plastic bags.

5 Complete and circle the story review.

Title: _____

Main characters: _____

Places: _____

Time: future / present / past

Problem:

_____

Solution:

_____

6 Write your opinion of the story.

- Do you like the children in the story? Why / Why not?
- What do you think of the story?
- Do you think this will happen in the future? Why / Why not?

Key	My opinion
1 = very bad 5 = very good	_____ _____ _____

❶   ❷   ❸   ❹   ❺

I can read a story about a space colony.

Experiment lab

I will learn how to make a telephone.

1 Read and match.

WE CAN SHOW SOUND WAVES IN GRAPHS

1 Sound can have a high frequency or pitch. We hear this as a high sound, like a bird. There are a lot of waves in the graph for a high sound. ☐

2 Sound can have a low frequency or pitch. We hear this as a low sound, like the bark of a big dog. There aren't a lot of waves in the graph for a low sound. ☐
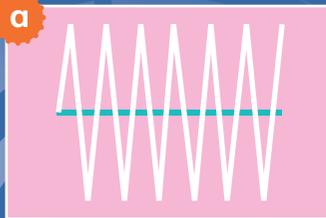
3 Sound can be very loud with a high volume. When a sound is loud, the lines on the graph are taller. ☐

4 Sound can be very quiet with a low volume. When a sound is low, the lines on the graph are shorter. ☐

a

b

c

d
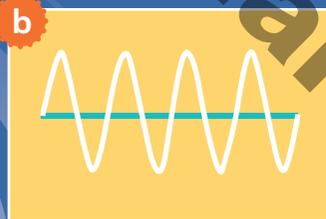
2 🎧 015 Listen and circle.

1 Pitch: high / low   Volume: loud / quiet

2 Pitch: high / low   Volume: loud / quiet

3 Pitch: high / low   Volume: loud / quiet

4 Pitch: high / low   Volume: loud / quiet

3 Draw graphs for the sounds in 2.
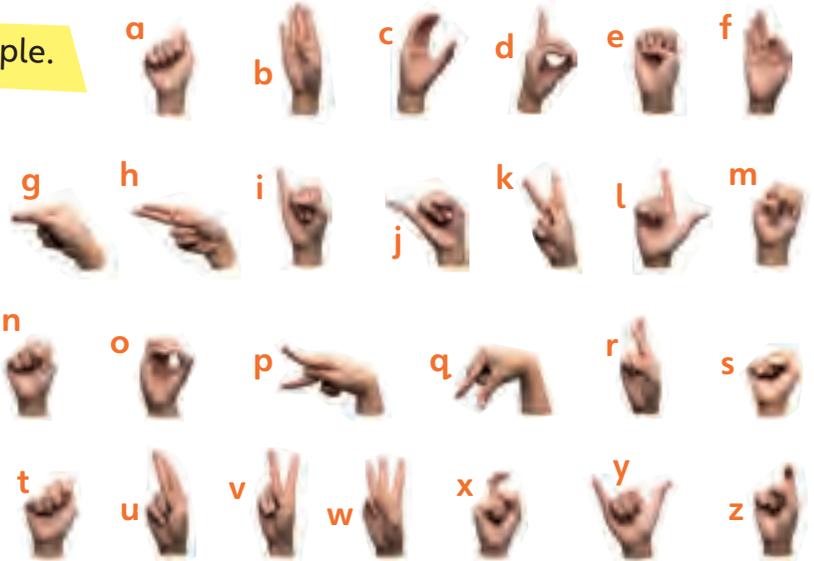
1

2

3

4
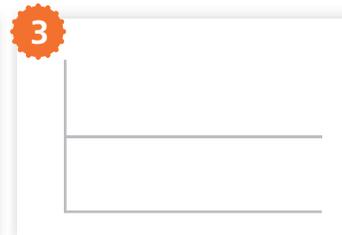
Values — Communicate with deaf people.

4 Read and tick ✓.

When you speak to a deaf person, …

a … look at the person. ☐

b … speak clearly. ☐

c … shout. ☐

5 Sign your name to a partner.

EXPERIMENT TIME

Report

1 Tick ✓ the correct picture and complete the sentences.

Experiment results

My friend can hear me when …

1 _____ . 2 _____ .

2 💬 Read and circle. Then discuss with a partner. How difficult was the experiment?

1 Making a hole in the cup.   Difficult / OK / Easy

2 Tying a knot.   Difficult / OK / Easy

3 Connecting the paper clip.   Difficult / OK / Easy

4 Hearing my partner.   Difficult / OK / Easy

5 Talking into the cup.   Difficult / OK / Easy

> Tying a knot was difficult because I'm not good with my fingers.
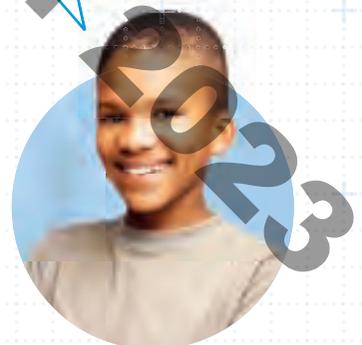
I know how to make a telephone.

45

Questions with *will*

COMMUNICATION

1 💡 **Read and tick ☑ or cross ☒ .**

> There are three Eco groups. They all make promises for the future. All the promises are different. All groups will recycle two things. They will only travel one way. They won't use one thing.

▶ **Group A** won't recycle glass. **Group C** will recycle food and glass. **Group B** won't recycle food.

▶ **Group B** won't travel by foot or by bus. **Group A** will travel with Group B. **Group C** won't use a vehicle.

▶ **Group C** will use plastic. **Group A** will use plastic bags, but they won't use plastic bottles. **Group B** will use plastic bottles, but they won't use plastic bags.

	Recycle			Travel by			Use		
	food	glass	paper	foot	bike	bus	plastic bags	cars	plastic bottles
Group A									
Group B									
Group C									

2 💬 **Complete your plan. Then ask a partner and take notes.**

FUTURE PLANS

	Me	My partner
Recycle		
Travel by		
Stop using		

What will you recycle in the future?

I'll recycle plastic and paper.

I can ask and answer about the future using will .

Writing lab

A BROCHURE

I will learn to write a brochure.

1 What will it be like in the future? Choose one and discuss.

a street   a school   a park   a shopping centre

What equipment will there be at a school in the future?

I think there'll be computers for all the students.

2 Make a brochure and draw a picture for the place you chose in **1**.

_____ FOR THE FUTURE

Name: _____

Location: _____

Inside features: _____

_____

Outside features: _____

_____

3 Write about the place you chose in **2**.

_____ , there will be _____.

_____

_____

_____

I can write a brochure.

Design a vehicle for the future

Project report

1 Tick ✓ the features on your vehicle.

computer ☐   engine ☐   handles ☐
lights ☐   radio ☐   screen ☐   seats ☐

2 Read and answer.

1 How long will the vehicle be?

_____

2 How much will the vehicle weigh?

_____

3 How fast will it go? _____

4 What will be on the control panel? _____

3 Write a description of your vehicle.

Name: _____   It can _____ .

My vehicle is _____ .   _____

On the outside, _____ .   _____

On the inside, _____ .   _____

4 Complete the sentences and answer.

| difficult |
| easy |
| OK |

It is _____ drawing a blueprint.

It is _____ following instructions.

It is _____ talking in English.
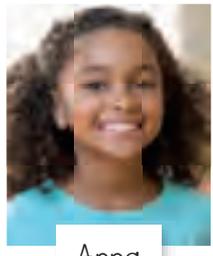
What did you learn?

1 I learnt _____ .

2 _____

3 _____

I can design a vehicle for the future.
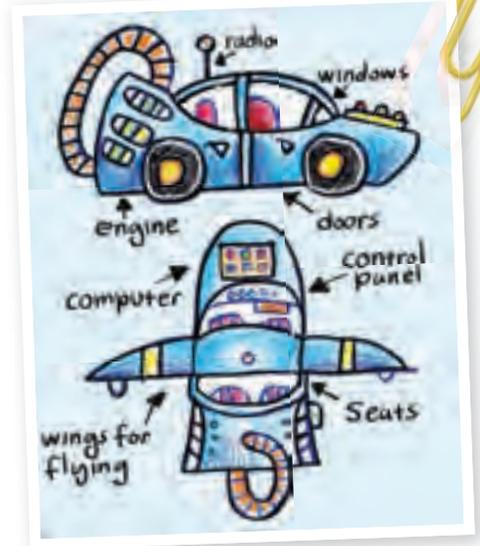
5 🎧 016 Listen and write the names.

Mark

Anna

Simon

Tessa

_____'S FUTURE PLANS	_____'S FUTURE PLANS
• live in a space colony • play inside • work in the control room	• live in a space colony • work in the vegetable garden • play inside
_____'S FUTURE PLANS	_____'S FUTURE PLANS
• live in an underwater city • work in the vegetable garden • play outside	• live in an underwater city • work in the control room • play inside

6 Look at 5. Read and circle T (True) or F (False). Then correct the false sentences.

1   Mark will wear a spacesuit.   T / F   _____

2   Anna won't work in the control room.   T / F   _____

3   Tessa will play outside.   T / F   _____

4   Simon won't wear a swimming costume.   T / F   _____

5   Mark won't grow vegetables.   T / F   _____

6   Anna will wear a spacesuit.   T / F   _____

7   Tessa won't work in a control room.   T / F   _____

8   Simon will live underwater.   T / F   _____

7 Complete the plans for your future.

IN THE FUTURE

Live: _____

Work: _____

Play: _____

Will you live in this city?

What work will you do?

8 💬 Ask and answer with a partner.