# Up into space How can I design a vehicle for the future?

Read and complete.

astronauts computer control panel gravity handles have a long training before they go to space. They practice moving in a zero \_\_\_\_\_ chamber. They wear a heavy spacesuit for several hours every day. They use \_\_\_\_\_ when they practice space walks. They learn to use the \_\_\_\_\_ and to program the

 $\mathbf{2} \stackrel{\text{def}}{\rightleftharpoons}$  Listen and check  $\mathbf{\underline{V}}$ .

- ... play soccer.
- ... eat three meals a day.
- ... cook.
- ... take a shower.

- ... do experiments.
- ... go on spacewalks.
- ... do the cleaning.
- ... sleep.





3 Read and number the instructions for a spacewalk.

- 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.

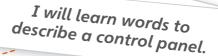
### CODE CRACKER OOO





### Lift off!

#### **VOCABULARY**



Read and complete. control panel Earth engine fuel gravity handles lights oxygen The spacecraft is traveling to another \_\_\_\_\_. planet radio screen seat The spacecraft has many parts. It has an for firing the shuttle into space. There are \_\_\_\_\_ tanks for the engine. There are \_\_\_\_\_ tanks for breathing. There are a lot of \_\_\_\_\_ for seeing 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 listen and color. Complete the riddles. Then check  $\checkmark$  the answers. 100% clear ear hear here 80% near year (x2) 1) You can \_\_\_\_\_ loud and 40% \_\_\_\_\_ but it isn't your 20% . What is it? OXYGEN FUEL GRAVITY RADIO a a radio EXTRA VOCABULARY b α screen Look and write. The new \_\_\_\_\_ is \_\_\_\_\_ . The old cable camera keyboard screen USB ports \_\_\_\_\_ is \_\_\_\_\_ . What's the date? α December 31st

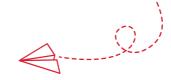
I can use words to describe a control panel.



b January 1st

# Language lab

**GRAMMAR: WILL AND WON'T** 



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



#### 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 Check ☑ eight features for an apartment building in the future.

	bedroom	kitchen	living room	backyard
computer				
screen				
radio				
robot				
smart lights				

CODE CRACKER O **3** Look at 2 and complete. My apartment building Key The 1 Use the green have words in 2. 2 The have Use will or won't. 2 The 3 have Use the blue 3 4 The have words in 2. The have 6 The have

# 4 Ask and answer with a partner. Take notes.

Vame:		Features of building				
	bedroom	kitchen	living room	backyard		
computer						
screen						
radio						
robot						
smart lights						



Will your building have a robot?

> Will the robot be in the backyard?

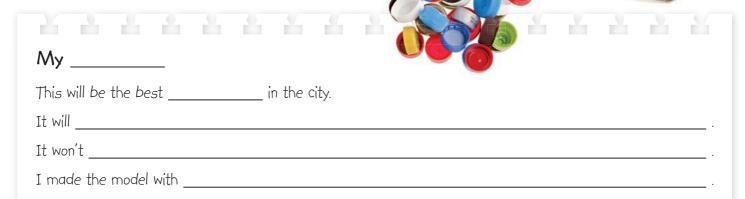
Yes, it will.

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



5 © Choose a room from your apartment. Make a model and write a description.

- Find a shoebox. Cut off the lid.
- Cut out the door and the windows.
- Paint the inside of the box.
- Use recycled materials to make the furniture, for example, bottle tops, old card, aluminum foil.
- Paint the furniture. Glue it into position.
- Use modeling clay for extra features.



I can talk about the future using will.



# **Story** lab

**READING** 





### 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.

- MATH ZONE
- 1 When there are 200 people in the space colony, they have oxygen for \_\_\_\_ days.
- When there are 100 people, they have oxygen for \_\_\_\_ days.
- When there are 400 people, they have oxygen for \_\_\_\_ days.
- When there are 50 people, they have oxygen for \_\_\_\_\_ days.



OXYGEN: 30 Days for 200 People



### 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 program. 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.

\_\_\_\_

1000			
(42)			

# 4 Make a promise tree for the future.

- Use marker pens to draw a big tree trunk with a lot of branches.
- Use green paper and cut out leaves.
- Write a promise for the future on the leaf.
- Ask your friends and family to write promises on the leaves, too.
- Glue the leaves on the tree.





- **6** Write your opinion of the story.
- Do you like the children in the story? Why?
- Do you think this will happen in the future? Why?
- What do you think of the story?

• • •					
Кеу	Му оріі	nion			î
1 = very bad 5 = very good					
	0	2	3	4	6

I can read a story about a space colony.



12/08/2020 16:50

# **Experiment** lab

SCIENCE: SOUND AND COMMUNICATION



I will learn how to make a telephone.

1 Read and match.

# WE CAN SHOW SOUND WAVES IN GRAPHS

- 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.
- 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.
- Sound can be very loud with a high volume.
  When a sound is loud, the lines on the graph are taller.
- Sound can be very quiet with a low volume. When a sound is low, the lines on the graph are shorter.







2 Listen and circle.

- 1 Pitch: high / low
- 2 Pitch: high / low
- 3 Pitch: high / low
- 4 Pitch: high / low
- Volume: loud / quiet

3 Draw graphs for the sounds in 2.









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### Values

Communicate with deaf people.















When you speak to a deaf person, ...

- ... look at the person.
- ... speak clearly.
- ... shout.















Sign your name to a partner.













### **EXPERIMENT TIME**

### Report

**1** Check ✓ the correct picture and complete the sentences.













### **Experiment results**

My friend can hear me when ...

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

- Making a hole in the cup. Difficult / OK / Easy
- Tying a knot. 2
- Connecting the paper clip. Difficult / OK / Easy 3
- Hearing my partner.
- Talking into the cup.

- Difficult / OK / Easy
- Difficult / OK / Easy
- Difficult / OK / Easy

Tying a knot was difficult because I'm not good with my fingers.



I know how to make a telephone.



## Questions with will

**COMMUNICATION** 



I will ask and answer about the future using will.



f 1 Read and check f igvee I or cross f igvee I.

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									

Complete your plan. Then ask a partner and take notes.

*7 7 7 7 **	FUTURE	PLANS	> 7 7 A
	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



I will learn to write a brochure.

**A BROCHURE** 



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









a street

a school

a park

a shopping mall



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 LUTURE

Name: \_\_\_\_\_\_

Indoor features:

Outdoor 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	Check		the features on	your vehicle.
---	-------	--	-----------------	---------------

computer engine handles lights radio screen



- How long will the vehicle be?
- How much will the vehicle weigh?
- How fast will it go? \_\_\_\_\_
- What will be on the control panel?

# **3** Write a description of your vehicle.

Name: My vehicle is \_\_\_\_\_ On the outside, \_\_\_\_ On the inside, \_\_\_\_

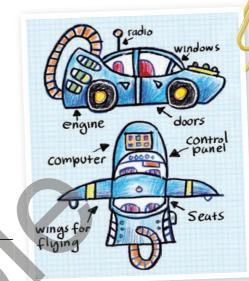
### 4 Complete the sentences and answer.

It is \_\_\_\_\_ drawing a blueprint. difficult It is \_\_\_\_\_ following instructions. easy It is \_\_\_\_\_\_ talking in English. OK

#### What did you learn?

I learned

I can design a vehicle for the future.





It can \_\_\_\_\_ .

# 5 Listen and write the names.











#### 'S FUTURE PLANS

### live in a space colony

- play indoors
- work in the control room

#### 'S FUTURE PLANS

- live in a space colony
- work in the vegetable aarden
- play indoors

#### 'S FUTURE PLANS

#### live in an underwater city

- work in the vegetable garden
- play outdoors

#### 'S FUTURE PLANS

- live in a underwater city
- work in the control room
- play indoors

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

- Mark will wear a spacesuit.
- 2 Anna won't work in the control room.
- Tessa will play outdoors. 3
- Simon won't wear a swimsuit.
- Mark won't grow vegetables.
- Anna will wear a spacesuit. 6
- Tessa won't work in a control room.
- Simon will live underwater.

- T/F
- T / F
- T/F
- **T** / F
- T/F
- T / F
- T/F
  - T/F

### Complete the plans for your future.

#### IN THE FUTURE

Live:

Work:

Will you live in this city?



What work will you do?



8 Ask and answer with a partner.

Now go to your Progress Chart on page 4.

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