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## Lift off!

**VOCABULARY** 

I will learn words to describe a control panel.



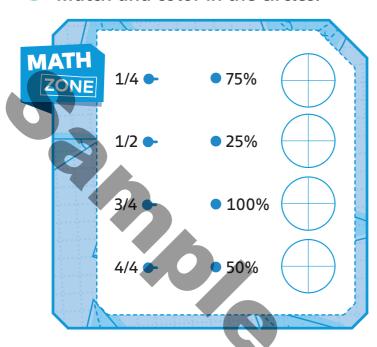
What does Commander Sally need for ...? Discuss with a partner.

breathing communicating controlling moving working

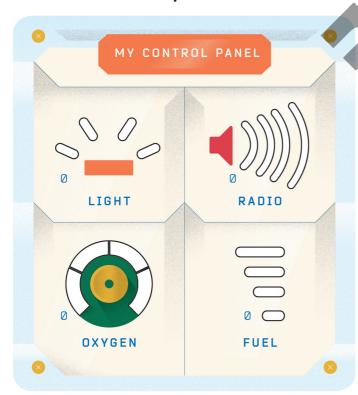
She needs the control panel for controlling the spacecraft.



## 3 Match and color in the circles.



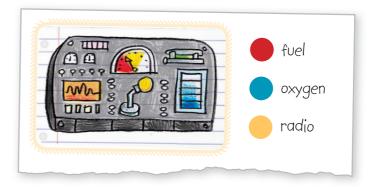
Color the levels. Then ask and answer with a partner.



What percentage is your fuel at?

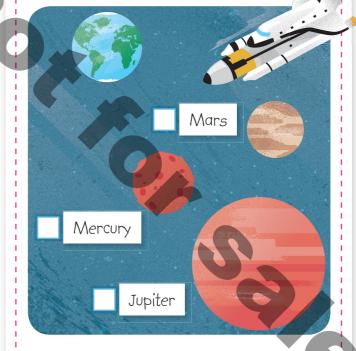
It's at fifty percent.

5 Make your own picture dictionary of a control panel with a color-coded key.



Listen and read. Check / the answer.

Commander Sally hears loud and clear. And off she goes for nearly a year. The planet isn't far, it's really near. So, where does she go?



Find and circle words with the same sound as ear in 6.

forty-five 45

# Language lab

**GRAMMAR: WILL AND WON'T** 

I will learn to talk about the future using will.



Watch the video.



We **will** live on a space colony. We **won't** need fuel.

Will we recycle our waste?

Yes, we will.

No. we won't.

2 Read and number the pictures.



### What do you think life will be like in the future?

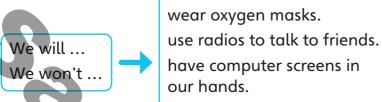
I think in the future we will live in a space colony like this one. The colony will orbit Earth. We won't need fuel because we will get all our energy from the Sun. There will be six floors. We will grow food on the 6<sup>th</sup> floor because it will have the most sunlight. We will recycle all our waste on the 1<sup>st</sup> floor because it will be the darkest. We will live on the 3<sup>rd</sup> floor, but we won't live in houses. We will play on the 2<sup>nd</sup> floor and we will work on the 4<sup>th</sup> floor. We will do our shopping on the 5<sup>th</sup> floor.

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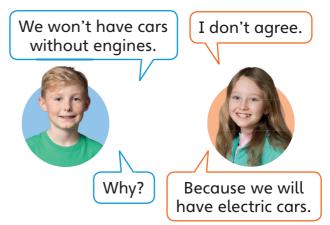
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## Read and write four sentences. Discuss with a partner.

wear school uniforms.

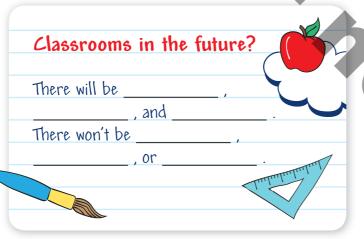


have cars without engines. live on another planet.



1	In the future,
2	
3	
/	

### 4 Complete the lists.



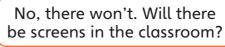


# **5** Play Find your words.



Will there be beds in the bedroom?

Yes, there will.



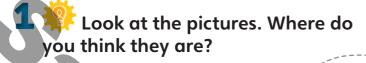


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## **Story** lab

**READING** 

I will read a story about a space colony.



2 Read and listen.

# **COLONY 369**

Hundreds of years ago, Earth was very polluted. People went to live on space colonies. One day, there was a problem with the control panel on Colony 369.

Scientists worked day and night to find a solution, but nothing worked.



Nia wished humans could live on Earth again. Her robot friend, Bob, told her there were robots on Earth. Bob used his special radio to communicate with them.

What is Earth like now?

Earth is perfect.

That's the solution! We will live on Earth.

No. We won't open the portal because humans will destroy the planet again.

Values Look after your world.

**3** Imagine you are Nia and complete.



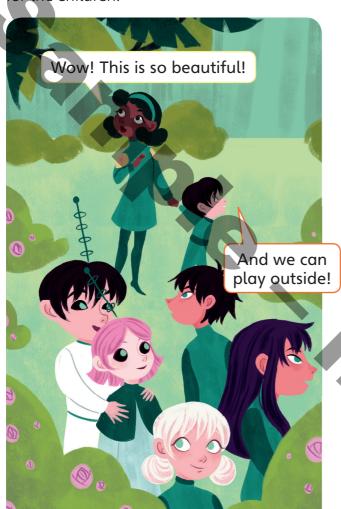
Why do the Earth robots trust the children? Discuss with a partner.



So Nia and Bob worked out a plan with the Earth robots. All the children went to a secret place. The Earth robots opened the special space door, but only for the children.

Back on the colony, the adults were worried. Where were all the children? Then suddenly the screens came on.

Hello! This is Nia. We are on Earth. Will you promise that you won't pollute Earth ever again? Then we will open the space door.



That night the people from Colony 369 returned to the beautiful Earth.

This is the best solution. We promise we won't pollute the land, air, or water. Thank you, children!



- The Earth robots open the special door.
- Nia and Bob find a solution.
- Colony 369 only has oxygen for two years.
- People polluted Earth.
- 6 Act out the story in groups.

- The adults promise they won't pollute Earth.
- People moved to a space colony.
- The children arrive on Earth.
- The adults arrive on Earth.

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# **Experiment** lab

**SCIENCE: SOUND AND COMMUNICATION** 

I will learn how to make a telephone.

Sound is a type of energy that is made when things vibrate. For example, when we hear the engine of a car. We use sound to communicate with others over short and long distances.



Check the pictures that show sound being used.













Read, listen, and complete.

Read, listen, and draw the echo.

Sound travels in waves. Sound waves get quieter as they travel. That's why we hear sound louder when we are close to the source, and quieter when we are far away. Sound waves travel in all directions. They have to travel through something, like a gas, liquid, or solid that will vibrate, for example: air, water, or glass. They cannot travel in outer space because there isn't anything that will vibrate.



When sound waves hit hard objects, they change direction and we hear an echo of the sound. If you stand in an empty room and shout, you will hear the echo. When sound waves hit soft objects, the sound waves stop and we don't hear an echo. We use soft materials to make sound quieter. For example, in music rooms or near busy streets.



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#### 4 Read and look. Then spell a partner's name in Morse code.

Morse code is an old system for sending messages. It uses short and long sounds to spell words. Written Morse code uses dots for the short sounds and dashes

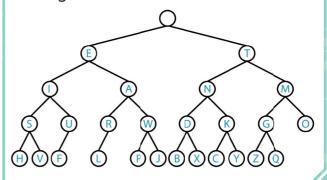
Dot dot dot ... dot for the long sounds. dash ... dash dash.

5 Listen and write the word. Then play Guess the word.

# CODE CRACKER OO



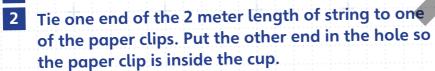
The binary tree helps you learn Morse code. The left branches are dots and the right branches are dashes.



# EXPERIMENT TIM

#### Can you make a telephone?





- 3 Put the other end of the string in the hole in the other cup. Tie a paper clip on the end so that it is inside the other cup.
- Give one cup to your friend and walk away until the string is tight. Talk normally into your cup and tell your friend to listen.
- Test your telephone several times speaking louder and quieter each time.
- What vibrates when you talk into the cup?

#### **Materials**

two plastic cups a 2 meter length of string metal paper clips



What do the sound waves travel along?



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## Questions with will

**COMMUNICATION** 

I will ask and answer about the future using will.

Where will you live?

What will you eat?

Who will you see? How will you live?

When will you arrive?



Ask and answer with a partner.

**Warning!** Earth is polluted. We will move to a space colony soon. Everybody will work together to plan for our future.

Who will the commander be?

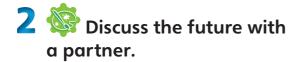
Who will the navigator be?

Where will you go?

When will you go?

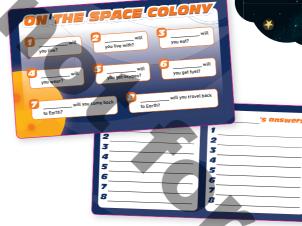
How will you get there?

What fuel will you use?



- Press out the cards.
- 2 Complete the questions with what, where, when, who, and how.
- 3 Answer the questions for you.
- 4 Ask your partner and write their answers.

Explain your plans to your friends.





I will go to a space colony near Mars.
I will live in a floating house.

How will you get inside your house?



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## Writing lab

**A BROCHURE** 

I will learn to write a brochure.

A paragraph is a group Read and number. of sentences about one main idea or topic. WELCOME TO PAIDON CIT 1 = work places the city of the future! – **2** = transportation **3** = schools **4** = outdoor places In the center of the city there will be a school in a big forest. All the children will walk to school. **5** = houses The houses will be small but beautiful. The houses will have gardens and spaces to leave bicycles. The park will have swimming pools, outdoor sports centers, and a special zero-gravity play area in the park. There won't be any traffic, noise, or pollution in Paidon City. People will take electric trains to work. mall There will be clean buildings for people to work in. Nearby, there will be shopping malls and hospitals. Wey Hill come and live Call **836-555-1116** in Paidon to plan a visit. city? 2 Look at 1. How do we know it will be a healthy city? Underline the answers. Imagine you are making a space city and complete.

Transportation:

Schools:

Other places: \_\_\_\_\_

Make a brochure for your space city.

Name of the city: Outdoor places: \_\_\_\_\_

Work places: \_\_\_\_\_

Houses: \_\_\_\_\_

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# PROJECT AND REVIEW

Design a vehicle for the future

# Step 1

#### Research



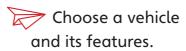
Find out about vehicles.

- Make a chart with how vehicles move.
- Add to the chart features that the vehicles have.
- Decide which features the vehicles will have in the future.

	Now	In the future
land	cars have wheels	no wheels
air	planes have wings	different types of wings
water	sailboats have sails	they will have balloons

# Step 2

Plan



- Decide if your vehicle is for people, objects, or both.
- Think about how your vehicle will move and the features it needs.
- Complete the information for your vehicle.

Vehicle:

Fuel:

Features on the control panel:

Length: Weight:

kg kg

Top speed: \_\_\_\_km per hour

Number of seats:

Number of lights:

A. C

Number of engines:

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# Step 3



Create

blueprint = plan



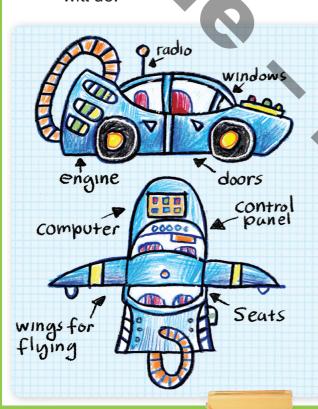
Make a blueprint.

Draw your vehicle from the front, the back, and the side.

Add the information.

Think of a name for your vehicle.

Think about what your vehicle will do.



Show your family your blueprint. Build your vehicle.

# Step 4



#### Show and tell



Present your vehicle.

Share your vehicle drawing.

Discuss details of your vehicle.

Ask for improvements or suggestions for your vehicle.

Find friends who chose the same vehicle type as you.

The Amaxa is a new vehicle. It will fly and move on land. It will have a control panel.



It will use water for fuel. It will get the water from the air.

# Now I can ...



... talk about the future using will.

... ask and answer about the future.

... write a brochure.



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