6 Outer Space

1 **Look, answer, and share.**

1 Who are the people in the photos?
2 What are they doing?
3 What do they have in common?





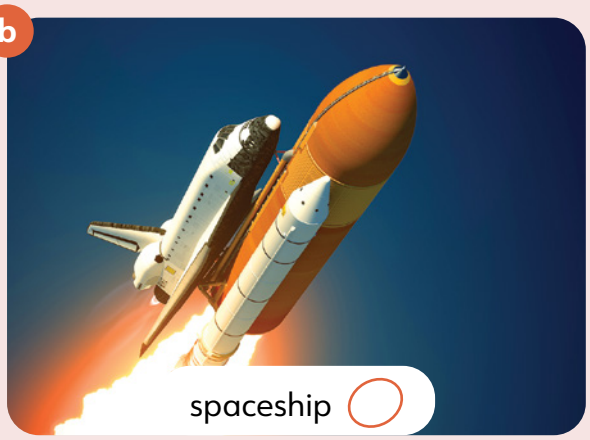
2 66 **Listen, point, and say.**

3 67 **Listen, number, and check.**

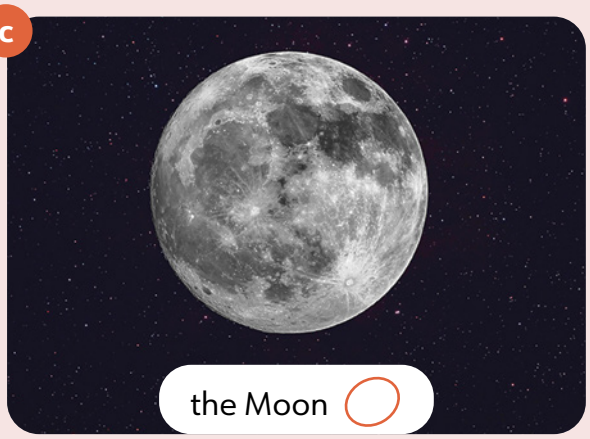
a



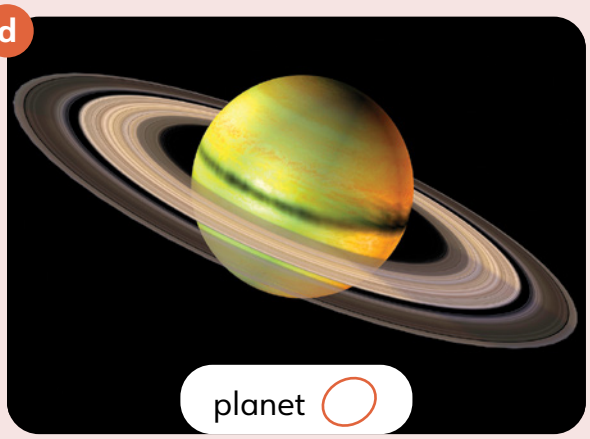
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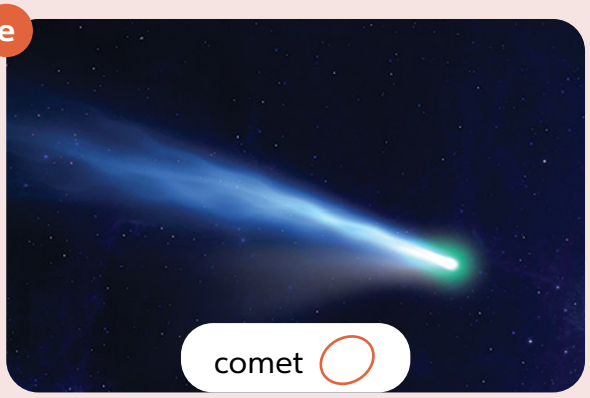
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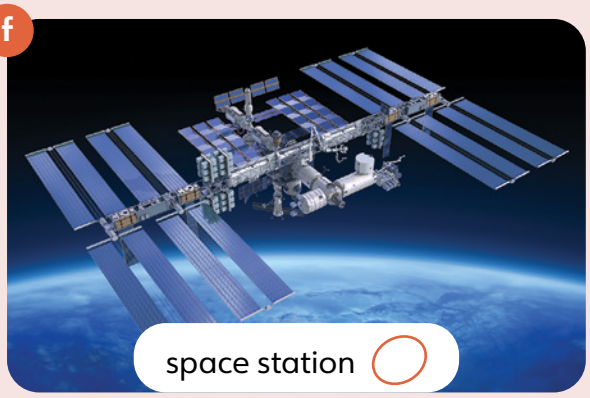


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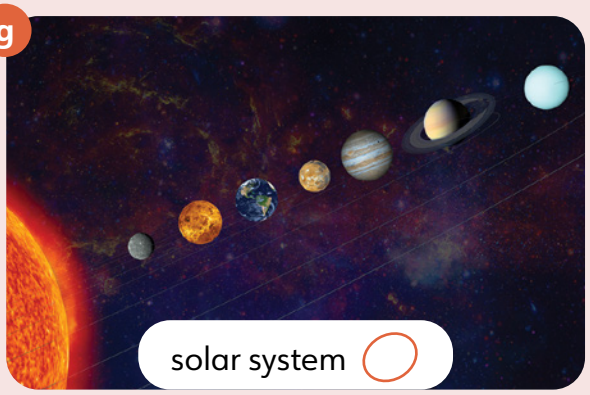
comet

f



space station

g



solar system

h



telescope

4 **Ask a friend. What do you know about space?**

A: Jupiter is the largest planet.

B: The Moon goes around Earth.

5 **Choose a picture from this lesson. Describe it for your group to guess. Use the clues to help.**

1 This takes people into space.

2 This helps us to see the stars.

3 We see this almost every night.

4 We live on one of these.



I would like to walk on the Moon. What would you like to do in space?



Grammar

1 68 **Read and listen. What color is Mars?**



Seb: What was the best thing in space?

Jane: I loved going outside the space station to do a spacewalk. The Moon and the planets are so beautiful.

Taylor: What's your favorite planet?

Jane: I think Earth is the most beautiful planet in our solar system.

Taylor: Hmm, Earth is more colorful than some planets, but I think Mars is as beautiful as Earth.

Seb: Yeah, Mars is definitely as colorful as Earth—it's red! I saw it with the telescope at the museum.

Taylor: What was the most difficult thing in the space station?

Jane: It was difficult to eat, and the food in space isn't as good as food at home.

Seb: Really?

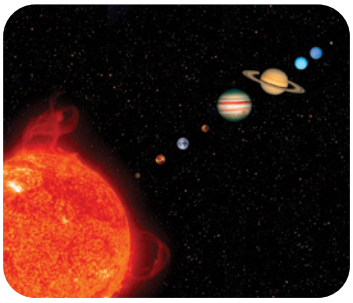
Jane: No way! School lunches are better than space food!

Grammar

Mars is **as beautiful as** Earth.
The food in space isn't **as good as** food on Earth.
Earth is **the most beautiful** planet.
Earth is **more colorful than** some planets.



2 **Look at the picture and choose the correct option.**



1 Earth **is** / **isn't** as large as Jupiter.
2 Venus is **the smallest** / **smaller** planet.
3 Mars is **more colorful** / **the most colorful** than the Moon.
4 The sun is **as big as** / **bigger than** Saturn.

3 **Use the picture again to talk about the planets with a friend.**



4 Watch the video again and complete.





1 The Moon _____ _____ beautiful _____ Earth.

2 Mars _____ _____ beautiful _____ Earth.



3 Earth is _____ colorful _____ the other planets.

4 Earth is _____ _____ beautiful planet.

5 Look at the pictures. Complete the sentences. Then share your answers with a friend. Do you agree or disagree?



1 A satellite **is** / **isn't** as big _____.



2 The Moon **is** / **isn't** as bright _____.



3 A telescope **is** / **isn't** as big _____.

6 Speaking Sharebook pages 37 and 39

1 **Skim the text. Who do you think is in the picture?**

2 69 **Read and listen. What did Rick do yesterday?**

I can put myself in others' shoes.

To: Jason@homemail.com
From: Rick@spacestation.com
Subject: Hello, Planet Earth!

SEND

Hi, Jason,

It was great to get your email. I miss you and Mom.

I'm staying at the space station with three other astronauts. We're having an amazing time! The space station is as big as a soccer field.

You asked me what I do every day. Actually, some things are just like home. We get up, have breakfast, and do some exercise. But the food isn't as good as Mom's, and we have to exercise more in space than on Earth to keep healthy. We also have to clean the station every day.

Yesterday, we went on a spacewalk. We went outside the space station to fix a satellite. It was dangerous, but it was awesome! It was cold and dark, but I was wearing my space suit!

We saw a comet! We saw Earth and the Moon, too! The Moon isn't as beautiful as Earth. Earth is so colorful!

I'm going to leave here in two weeks. I can't wait to see you and Mom again!

Love from,
Dad



3 **Read and answer.**

1 How does the email start?

2 Is the email formal or informal?

3 Which activity was the most dangerous?

4 How does the email end?

Reading Tip

Skimming a text quickly can tell you who the people are.



4 **Watch the video. How do you think Rick feels? Share how you would feel floating in space.**

1 Think.

Read the email from Rick again and circle the correct option.

1 How does the email start? **Hi / Dear / Hello / Hey**
2 Where's Rick staying?
on an island / in the rainforest / on Mars / at a space station
3 What's the weather like? **cold and dark / hot and sunny / rainy**
4 What's the space station like? **very big / very small / as nice as home**
5 Which things in space does he write about? **his activities / his clothes / his hobbies**
6 How does he finish? **Best wishes / Wish you were here / Love from**

2 Plan.

Look again at the questions in Activity 1. Make notes for your email.

1 Start your email. _____
2 Say where you're staying. _____
3 Say what the weather is like. _____
4 Say what the place is like. _____
5 Say what you are doing there. _____
6 Finish your email. _____

3 Write.

Follow the steps on page 65 of your Workbook to write your email.

Now
share it!

Share your email with a family member or friend from a different class. Ask how they write emails.



I can write an informal email.

1 70 **Read and listen. Why does the Moon look small?**



Touching the Moon!

Do you like this picture? The sky was dark, but the Moon was **bright** and beautiful. The Moon is an **enormous** rock, and it's very **heavy**, but in this picture, it looks **light**. I'm in front of it! It looks about one meter **wide** because it is **far** from Earth—almost 400,000 kilometers! Things look smaller when they are far away and bigger when they are **near**. There are a lot of stars in space, too. They look small because they're millions of kilometers from Earth.

2 **Read and write *True* or *False*.**

1 The Moon isn't light. It's heavy. _____
2 When the sky is dark, the Moon is bright. _____
3 The Moon is almost 400,000 kilometers away. _____
4 The Moon is enormous. _____
5 The stars are near Earth. _____
6 Things look bigger when they are far away. _____
7 The Moon is one meter wide. _____

3 **Make clues with the adjectives for a friend to guess the noun. Take turns giving clues and guessing.**

heavy light near far enormous
small bright beautiful hot wide

elephant Sun moon flower cloud Mars
Mercury comet campfire mosquito house star



1 71 **Read and listen. Is Jupiter heavy in space?**



Taylor: I'm doing my homework. Do you know anything about Jupiter?

Seb: Yes. It's the biggest planet in our solar system. It's bright, too.

Taylor: Great! How big is it?

Seb: It's enormous! It's nearly 143,000 kilometers wide.

Taylor: How far is it from the sun?

Seb: It's 778,500,000 kilometers away.

Taylor: How heavy is it?

Seb: I don't know. Millions of kilograms, but it isn't heavy in space. Nothing is heavy in space.

Taylor: How do you know all this?

Seb: Taylor! We went to the space museum. Don't you remember?

Grammar

How big is Jupiter?
How far is it from the sun?
How heavy is it?



2 **Look at the answers and complete the questions.**

heavy ~~far~~ long wide tall

1 How *far* is it from London to Mexico City? 9,000 kilometers.
2 How _____ is your bed? It's nearly 2 meters long.
3 How _____ are you? 125 centimeters.
4 How _____ is a bus? As heavy as ten cars.
5 How _____ is the Amazon River? 11 kilometers wide in the dry season.

3 **Complete the questions and ask your group.**

1 How _____ is your hair?
2 How _____ is the tallest student in our class?



4 **Speaking** **Sharebook pages 41 and 42**

1 **Look at the pictures. Tell a partner what you see.**



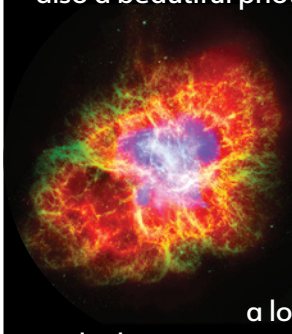


2 72 **Listen and read.**

Space Photography



This image, often called "Earthrise," is one of the first photos taken by NASA (the National Aeronautics and Space Administration). It was taken in 1968 during the Apollo 8 mission. It helped scientists learn about space, and it is also a beautiful photo.



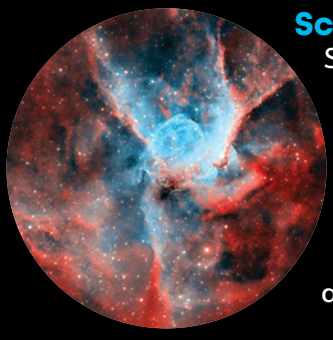
Art in space

Astrophotography is the art and science of taking pictures of objects in the sky. Space **photographers** take pictures of stars, planets, and **galaxies**.

How is it done?

Today NASA takes and shares most space photographs. The technology has improved a lot. For example, the photos taken by satellites and telescopes are in black and white. The colors we see are added later to **highlight** details. The colors help scientists understand space better. Scientists have used these photographs to make discoveries. This is the first picture of a **black hole**.





Science or art?

Space photography is both. Taking photographs from satellites or the Hubble telescope helps scientists, but the photos also **delight** and **inspire** the public. As technology improves, the photos will **advance** our understanding of space and become more beautiful. Space photography is an art that helps us **visualize** and **appreciate** the **cosmos** and our place in the universe.



3 **Think, answer, and share. Which is your favorite photograph of space? How does it make you feel?**

4 **Read the text again and discuss.**



1 What organization takes most space photographs?
2 What do space photographers take pictures of?
3 Why are colors added?
4 Is space photography a science or an art?

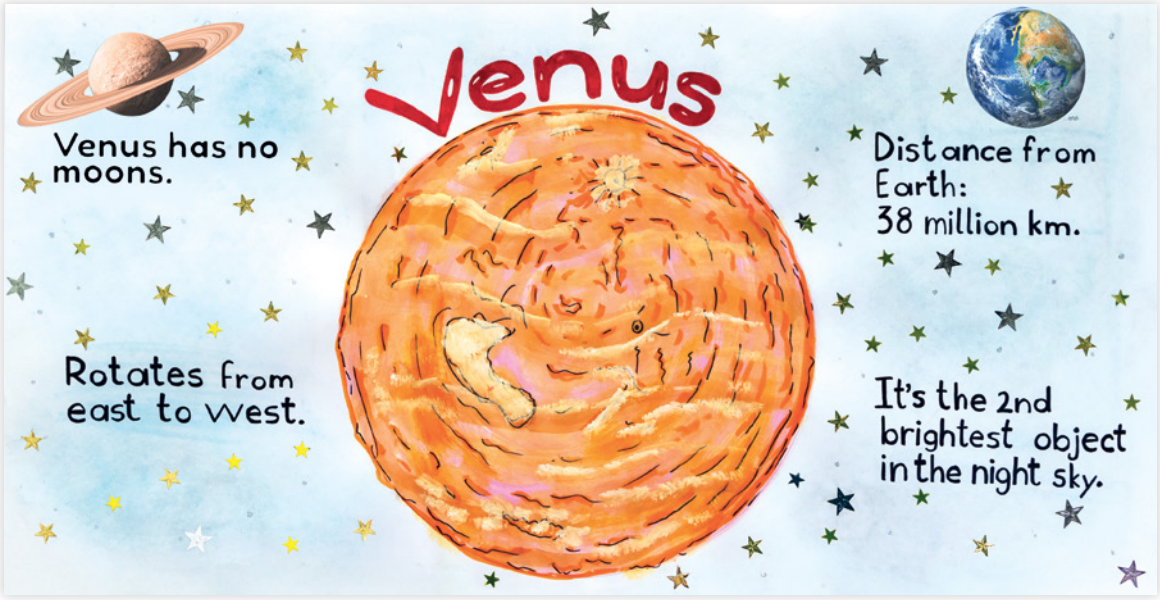
5 **Project** **Create and present a fact file about a planet. Work in a group.**

Research and write notes about the following areas:

1 Name, size, and distance from Earth
2 Interesting facts

Download and print black-and-white images of your planet from the internet. Color them like space photography to highlight the details.

Create a presentation using your fact file.



6 **Present your planet fact file to the class.**

Now share it!

Share your planet fact files on a school bulletin board or school website.

1 73 **Listen and repeat.**



pool



book

/oo/

Pool has the long */oo/* sound. *Book* has the short */oo/* sound.

2 74 **Listen and repeat. Then write the word under the picture.**

food spoon moon tooth look cook book foot

long */oo/*









short */oo/*









3 75 **Speak it! Say the sentences. Then make your own in your notebook with a friend.**

1 I **took** the **cookbook** from **school** to **cook food** that tastes **good**.

2 My **tooth** hurts because I hit it with a **spoon** while I was **look**ing at the **moon**.

Pronunciation

Words spelled with *-oo-* can have long or short sounds, like in *food* and *foot*.

1 Play *Silly Sentences!* Use the language from Unit 6.

1 Spin your spinner three times.
2 Choose the word from each list.
3 Create a sentence with the three words.
4 The silliest sentence wins!

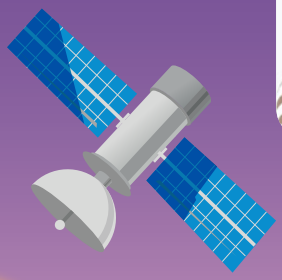


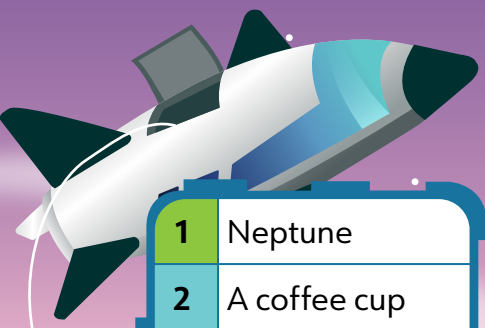
Earth is more beautiful than my nose.



Neptune is smaller than a dog.









1	Neptune
2	A coffee cup
3	Earth
4	A telescope

1	big
2	small
3	beautiful
4	far

1	a dog.
2	the space station.
3	my nose.
4	our teacher.

1 _____

2 _____

3 _____

4 _____

2 Me Complete about yourself.

1 The activity I like most is _____.

2 The most difficult activity is _____.

3 Listen and chant.

76

Review

Comparative	Superlative
The Moon is **as beautiful as** Earth.	Jupiter is **the biggest** planet.
Mars isn't **as beautiful as** Earth.	Earth is **the most beautiful** planet.
Earth is **more colorful than** Venus.	Jupiter is **the most colorful** planet.

1 **Circle the correct option to complete the sentences.**

1 A satellite **is** / **isn't** as big as a space station.
2 Earth is **more** / **most** colorful than the Moon.
3 A comet is **more small** / **smaller** than a planet.



2 **Add a missing word to each sentence. Then rewrite.**

1 The Moon is bigger the space station.

_____

2 My cell phone isn't as powerful a telescope.

_____

3 **Match the words to the definitions.**

1	This is where Earth and the other planets are.	**a**	comet
2	Astronauts travel in this.	**b**	satellite
3	These space objects can take pictures.	**c**	spaceship
4	This is a ball of ice and dirt that travels around the sun.	**d**	solar system

4 **Match the opposites. Then use the words to create sentences.**

1	far	**a**	beautiful
2	heavy	**b**	big
3	small	**c**	light
4	ugly	**d**	near



1 the space station / the moon

_____

2 comet / a spaceship

_____

More review with ... Kahoot!

Flyers A2 Reading and Writing

1 **Read the story. Choose a word from the box. Write the correct word next to numbers 1–5. There is one example.**



telescope	heavy	Earth	butter	exciting	space
plate	planets	bright	salt	kitchen	

Last weekend, Harry and five friends went to the space museum for Harry's birthday.

The museum was really .....*exciting*..... First, Harry and his friends went into a big dark room and looked at the stars and the [1] ..... through an enormous [2] ..... Then they went inside a spaceship and learned about how astronauts live, sleep, and eat in space.

There was a movie theater at the museum, too, and they watched a movie about a journey into [3] .....

After the museum, Harry and his friends were hungry. "Can we go and get pizzas?" asked Harry. "No, there isn't enough time. We have a lot of food at home," his father said.

When they were home, they opened the door. "Surprise!" It was Harry's sister Megan and her friend Flora. They were carrying an enormous, [4] ..... cake. It was a spaceship cake.

"Wow! Thank you!" said Harry. "How did you make that?"

"Well, we got some flour, [5] ....., sugar, and eggs," said Megan. "Then we ..."

"That's great," said Harry, "but can we eat it now, please? I'm as hungry as a bear."

2 **Now choose the best name for the story.**

A Great Birthday ☐ A Trip to the Moon ☐ The Enormous Cake ☐

1 **Look at the pictures and discuss.**

1 What did you eat yesterday?

2 How do your food choices affect the environment?



2 77 **Read and listen to the blog post about sustainable eating. What do the Eco Twins suggest?**

Planet Protectors

HOME | ABOUT US



Hey, Planet Protectors! We're Samir and Sarah, the Eco Twins! Welcome to our weekly blog! In this space, we talk about ways we can all help the planet. Today's challenge is **sustainable** eating. Are you ready?

Sustainable eating is about making good food choices. It means growing food that does not harm the environment. It also means eating food that is healthy and will help feed everyone in the future. Don't know how to start? Here are some ideas we can all put into practice:

1 Grow your own food by starting a community garden at school or in the neighborhood. In the garden, you can grow fruit and vegetables from your local area. They will taste great! You will attract bees and butterflies, and you'll help the planet.



2 Choose local produce! Transporting food takes a lot of energy and causes pollution. If you buy local food, it's better for the planet, you support local farmers, and you eat fresh food! Everyone wins!



3 Choose more plant-based food. Every food decision we make affects the future. For example, I love hamburgers, but it takes a lot more **resources** to produce a hamburger and a chocolate milkshake than a veggie burger and a salad. I mean resources like land, water, animals, and energy for transportation. We cut down forests to make space for cows that give us meat and dairy. But is it worth it? Try Meatless Monday with your family. Find foods that everyone likes that don't have meat.



4 Try food from different cultures. Does your family like Chinese or Indian food? There are a lot of delicious options to choose from that have little or no meat. Have you tried some foods from other cultures? Make it fun!



5 Get creative! Try to use different food sources. You can include seeds and nuts in your diet, there are a lot of them! Trust me, many countries already have traditional dishes that use these ingredients.



OK, Planet Protectors, ready to start eating sustainably? Share some photos of your sustainable food choices!

Glossary

sustainable: using methods that do not harm the environment
resources: natural substances that are valuable in supporting life

3 **Read the sentences and write *True* or *False*.**

1 Sustainable eating protects the environment now and for the future. _____

2 Buying food grown in your area is a way to eat sustainably. _____

3 Eating food transported from far away is a way to eat sustainably. _____

4 Some traditional dishes use ingredients from different food sources. _____

4 **Think and discuss with a friend.**

1 Name three ideas to make eating sustainable.

2 Name two ideas you haven't thought about before.

Do you already do sustainable eating? Which suggestions would you like to try?

