

6 Outer Space

Lesson 1 Vocabulary

1 Talk about the pictures.

Where can you see this?
When can you see this?

2 Listen, point, and say.

3 Listen, number, and check.

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

A: Jupiter is the largest planet.
B: The moon goes around Earth.



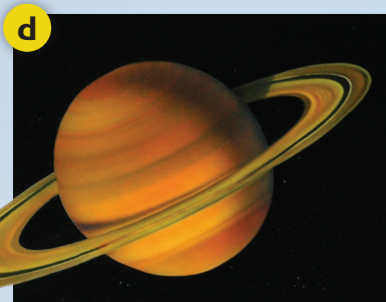
satellite



spaceship



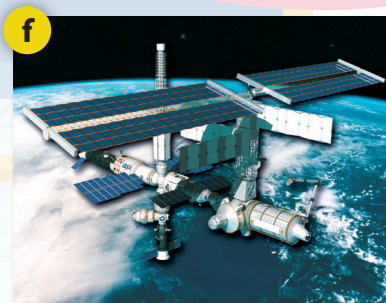
the moon



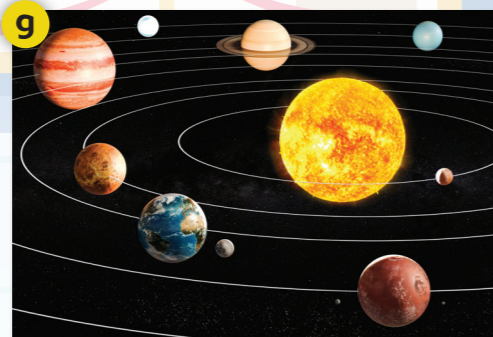
planet



comet



space station



solar system



telescope

68 I can name words about space.

Workbook page 57

Workbook page 58

I can compare two things using (not) as ... as.

Unit 6 69

Lesson 2 Grammar

1 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!

2 Write the sentences using (not) as ... as ...

1 The moon is smaller than Earth.

Earth isn't as small as the moon.

2 Earth is more colorful than the moon.

The moon _____

3 Earth and Mars are both beautiful.

Mars _____

4 A space station is bigger than a spaceship.

A spaceship _____

3 Sharebook A: page 37
B: page 39 Find and Compare

A: The sun is hotter than the moon.

B: That's true! The moon isn't as hot as the sun.



Grammar

Mars is **as beautiful as** Earth.

The food in space isn't **as exciting as** food on Earth.

Earth is **the most beautiful** planet.

Earth is **more colorful than** some planets.

Grammar Practice page 108



Lesson 3 Reading

1 Read and listen. What did Rick do yesterday?

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.

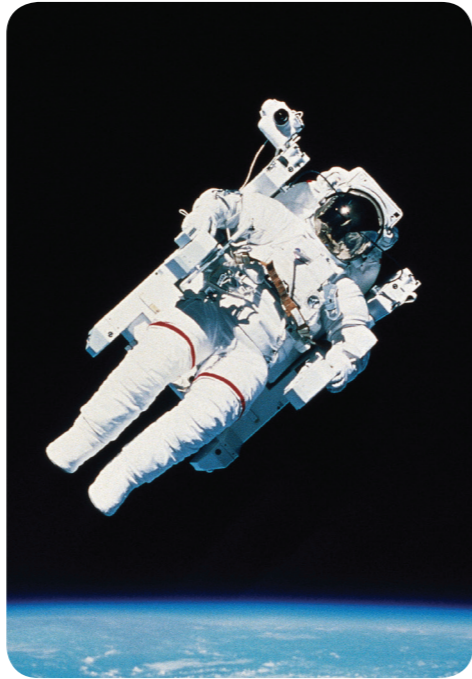
You asked me what I do every day. Actually, some things are just like home. We get up, have breakfast, and do some exercise. But the food isn't as good as Mom's, and we have to exercise more in space than on Earth to keep healthy. We also have to clean the station every day.

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



2 Answer the questions.

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?

3  **Ask a friend. Is life at the space station the same as life at home? How is it different?**

Reading Tip

Skimming a text quickly can tell you who the people are. Who are Rick and Jason? How do you know? Underline clues in the text.



70 I can read and understand an informal email.

Workbook page 59

Workbook page 60

I can write an informal email.

Unit 6 71

Lesson 4 Writing

Write an informal email.

1 Think.

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

- How does the email start? Hi / Dear / Hello / Hey
- Where's Rick staying?
on an island / in the rainforest / on Mars / at a space station
- What's the weather like? cold and dark / hot and sunny / rainy
- What's the space station like? very big / very small / as nice as home
- Which things in space does he write about? his activities / his clothes / his hobbies
- 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.

- Start your email. _____
- Say where you're staying. _____
- Say what the weather is like. _____
- Say what the place is like. _____
- Say what you are doing there. _____
- Finish your email. _____

3 Write.

Follow the steps in your Workbook page 60 to write your email.



Share it!

Read your email to a friend. Did your friend have a good time? Why? Why not?

1 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 Vocabulary Quiz 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 Ask a friend. Choose two adjectives and guess.

heavy	light	near	far	enormous
small	bright	beautiful	hot	wide

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



72 I can name descriptive words.

Workbook page 61

1 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: 778,500,000 kilometers.
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?

Grammar Practice page 108

2 Look at the answers and complete the questions.

heavy ~~far~~ long big wide tall

- 1 How far is it from London to Mexico City? Nine thousand kilometers.
- 2 How _____ is your bed? One meter wide and nearly two meters long.
- 3 How _____ are you? One hundred twenty-five centimeters.
- 4 How _____ is a bus? As heavy as ten cars.
- 5 How _____ is the Amazon River? Eleven kilometers wide in the dry season.
- 6 How _____ is the longest river in the world? Nearly seven thousand kilometers long.

3 Sharebook A: page 41
B: page 42 World Fact File

A: How long is the longest snake?
 B: The longest snake is eight meters long.



I can ask how long/far/big something is.

Unit 6 73



1 Look at the pictures. What three things do you need for an eclipse?



2 Listen and say.

1 line 2 eclipse 3 hide



3 Read and listen.

4 shadow 5 total

Eclipses

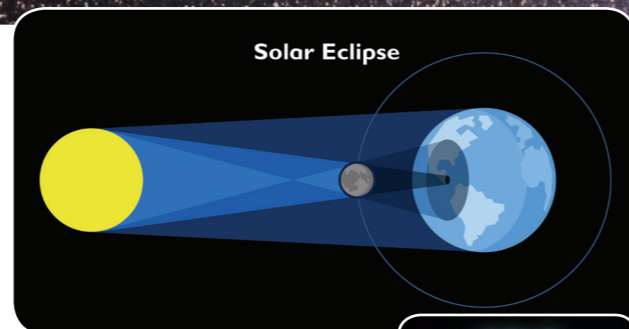
Earth is bigger than the moon but it isn't as big as the sun. Earth moves around the sun in 365 days. The moon moves around Earth in 29.5 days. Sometimes Earth, the moon, and the sun are in a **line**. This is called an **eclipse**. There are two different types of eclipse.

Solar Eclipse

- The moon is between the sun and Earth. The moon isn't as big as the sun, but it's nearer to Earth so it looks as big as the sun from Earth. The moon can **hide** the sun for a few minutes.
- When the sun is behind the moon, there's a **shadow** on Earth.

When there's a **total** eclipse, you can't see the sun at all and it's dark in some places on Earth in the daytime!

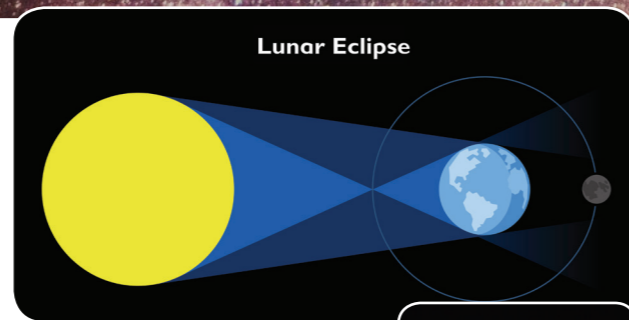
NEVER look at an eclipse of the sun! It's very bright and isn't safe for your eyes.



Lunar Eclipse

- Earth is between the sun and the moon. Earth hides the sun so there's a shadow on the moon.
- The moon looks dark red.

It's safe to look at an eclipse of the moon.

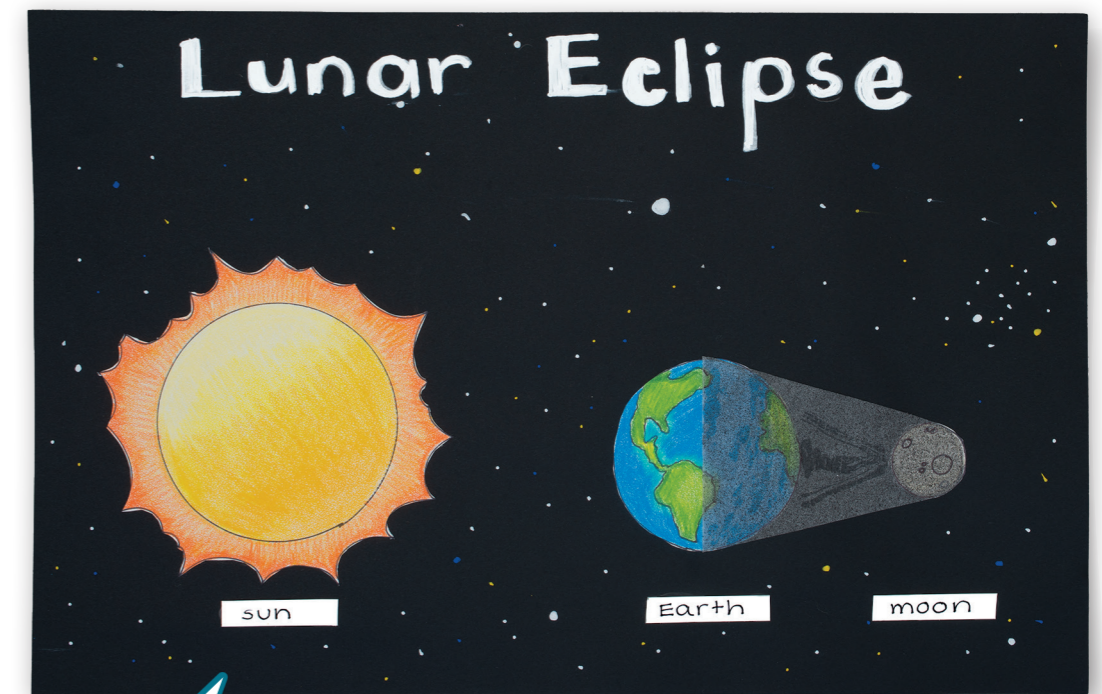


Every year there are four to seven eclipses in the world. You can see them from different places on Earth.

4 Read the text again. Answer the questions.

- 1 How many days does it take for Earth to go around the sun? 365 days
- 2 How many different types of eclipse are there? _____
- 3 Which is the biggest – the sun, the moon, or Earth? _____
- 4 Where is Earth in a lunar eclipse? _____
- 5 Which shouldn't you look at, a solar eclipse or a lunar eclipse? _____
- 6 How many eclipses are there every year? _____

5 **Project** Make a presentation to explain the difference between a solar and a lunar eclipse. Give as many details as you can.



In a lunar eclipse, Earth is between the sun and the moon.

Share at Home

Talk with your family. Explain the difference between a solar and lunar eclipse.



1 Listen and repeat.



2 Listen and repeat. Then read and say.

1	too	tooth	soon	noon	boot	roof
2	cook	look	took	wood	good	hood
3	moo	zoo	cool	pool	room	broom

REVIEW

4	boy	toy	noise	join	point	coil
5	mouse	mouth	now	brown	town	out

3 Listen, read, and say.



The roof on the house is red.



I use a broom to clean.

1 Play Round and Round! Use the language from Unit 6.

START

Ask and answer. Which is brighter, the moon or the sun?

Make a sentence. Ask about space. Use *How long/far/big*

Spell it. Name three things you find in space.

How to Play

- Spin. Then move your marker.
- Look, read, and answer.
- Blue space = 1 point.
- Yellow space = 2 points.
- Get 10 points to win!

Name it. Name three adjectives to describe things in space.

Lose a turn! Compare a spaceship and a car. Use *(not) as ... as*

Ask and answer. Which is bigger, Earth or the moon?

Spell it. Name three things you find in space.

2 Now complete your Progress Tracker in the Workbook.

3 Listen and chant.

