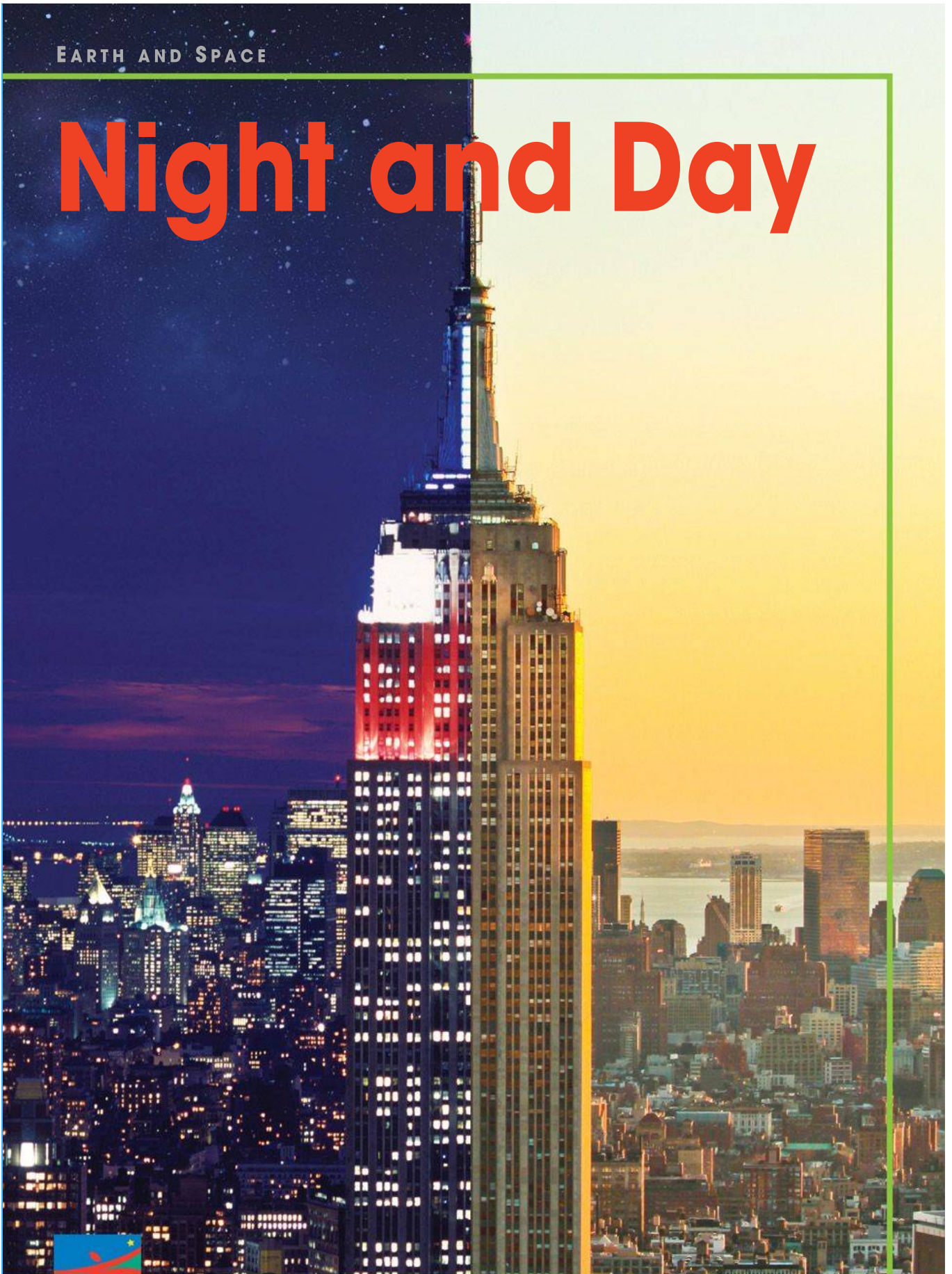


EARTH AND SPACE

Night and Day



by Hilary Maybaum

EARTH AND SPACE

Science

Content Objectives

- Recognize the repeating patterns of objects in the sky
- Understand the basic relationship between the sun and Earth

Skills at a Glance

Comprehension

- Make predictions and organization

Content Vocabulary

- Earth, moon, planet, rotate,

Vocabulary Strategy

- Use picture clues to determine

Text Structure

- Description

Nonfiction Text Features

- Diagram
- Labels

Shared Writing

- How do night and day differ?

Content CONNECTIONS

Science EARTH AND SPACE

Night and Day

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Pictures to Think About



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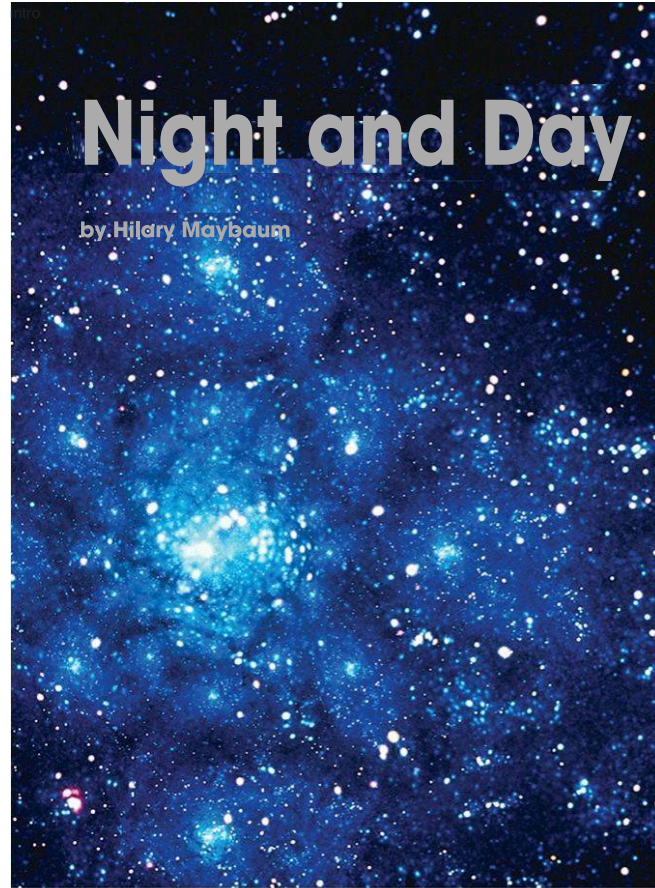
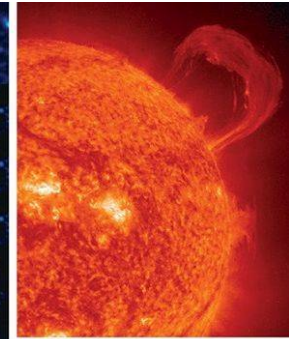


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Words to Think About

Earth



Earth has land, water, and clouds.

moon



On some nights, the moon looks like a bright circle.

planet



Earth is the planet on which we live.

rotate



This toy can rotate, or spin.

stars



Stars look like tiny points of light in the sky.

sun



We get light from the sun.

Introduction

Look up at the sky. What do you see?
If the sky is dark, then it is night.
If the sky is bright, then it is day.

Have you ever wondered why we have
night and day? You will find out as
you read this book.



night



day

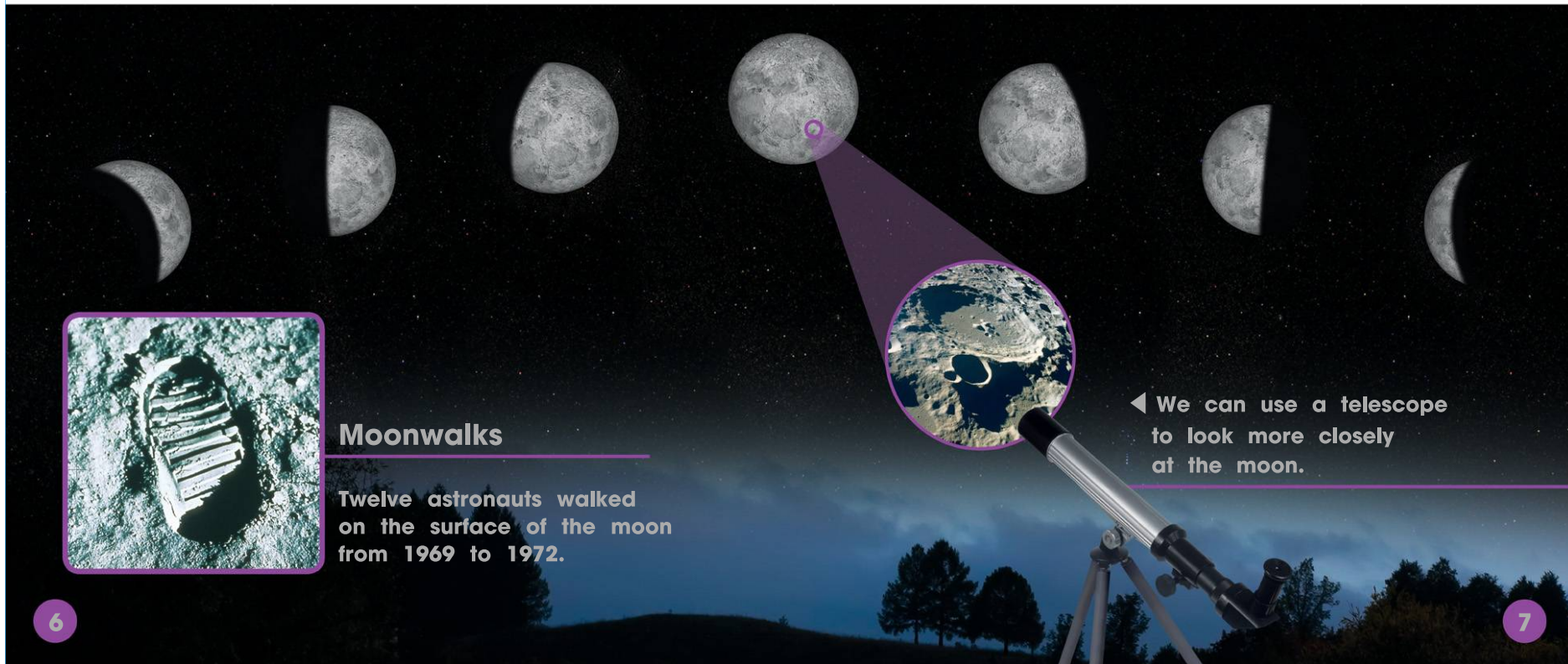


What Can We See in the Sky at Night?

We often see the **moon** at night. The moon is a round, rocky object that moves around **Earth**.

▼ Can you find the full moon in this picture?

As the moon travels around Earth, the moon appears in different places in the sky. The moon seems to change shape each night.



Moonwalks

Twelve astronauts walked on the surface of the moon from 1969 to 1972.

◀ We can use a telescope to look more closely at the moon.

On a clear night, we may see **stars** in the sky. Stars are very hot. Stars glow because they make their own light.

▼ Stars are not scattered evenly in the sky.

Stars seem small because they are very far away. Stars are much bigger than Earth. Many stars fill the sky. We cannot easily count all the stars.



Think About It

Shooting stars are not really stars at all. Shooting stars are bits of rock that scientists call meteors. Why do you think we call meteors "shooting stars"?

▲ Most meteors glow for only a few seconds.



What Can We See in the Sky During the Day?

We often see the **sun** during the day. The sun is the nearest star to Earth. Still, the sun is very far away. The sun is much bigger than Earth.

▼ We get light and warmth from the sun.

Sometimes we see the moon in the sky during the day. The moon does not make its own light. The moon reflects light from the sun.

▼ We do not get light or warmth from the moon.

LOOK AT TEXT STRUCTURE

Description

Find the word “far.” The author uses this word to describe, or give information about, the sun. What other words does the author use to describe the sun?



Why Do We Have Night and Day?

Like all **planets**, Earth **rotates**, or spins. Have you ever been on a merry-go-round? A merry-go-round rotates.

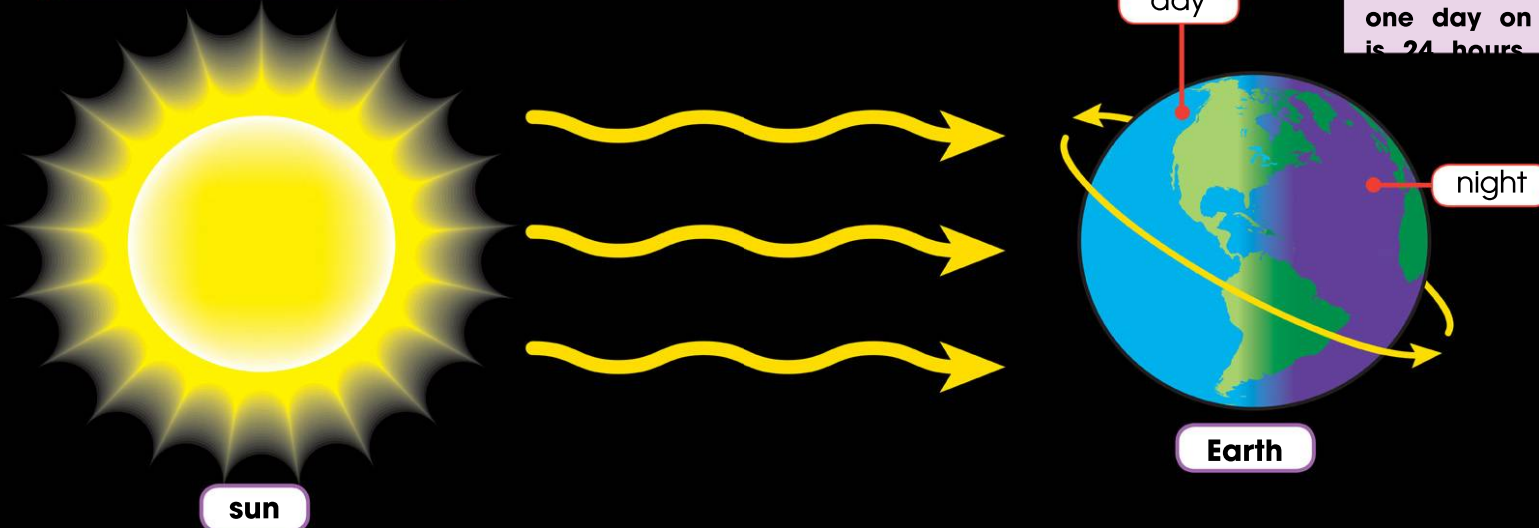


Earth rotates once each day. When the part of Earth that we live on faces the sun, we have day. When the part of Earth that we live on faces away from the sun, we have night.

▼ We have night and day because Earth rotates.

Rotation Fact

Earth takes almost 24 hours to make one complete spin. This is why one day on Earth is 24 hours long.





Conclusion

We often see the moon and stars in the sky at night.

We often see the sun in the sky during the day. Earth rotates, giving us night and day.

Night

The sky is dark.
We may see the moon.
We may see stars.

Day

The sky is bright.
We often see the sun.
We may see the moon.



Glossary



Earth the planet on which we live
See page 6.



moon an object that moves around a planet
See page 6.



planet a large object that moves around a star
See page 12.



rotate to spin
See page 12.



stars objects in space that give off light and heat
See page 8.



sun the closest star to Earth
See page 10.

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Astronomer

An astronomer is a scientist who studies objects in space.



Astronomers use telescopes to see objects that are far away. Telescopes make far-away objects look bigger.



Astronomers use math to study how objects move in space.



Many astronomers use satellites to gather information from space. The satellites move around Earth.



Astronomers use computers to help them understand the information they gather.

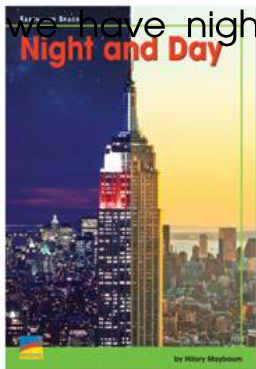
Make a Connection

Why are astronomers important? Would you want to be an astronomer? Why or why not?

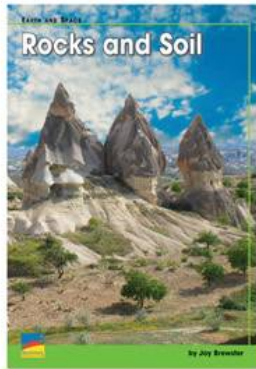
Night and Day

What can you see in the sky at night? What can you see in the sky during the day? Find the answers in this book. Learn why

~~we have~~ night and day.



Theme:
Earth and Space



ABOUT THE AUTHOR

Hilary Maybaum Writes and edits books about science. She enjoys reading, hiking, and looking at stars.

