

# Look Up! Our Sky



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Printed in the United States of America

ISBN 0-15-343907-6

1 2 3 4 5 6 7 8 9 10 039 10 09 08 07 06 05

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 **Harcourt**  
SCHOOL PUBLISHERS

Orlando Austin New York San Diego Toronto London

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# ▸ **The Daytime Sky**

Look up. What do you see? You see the sky.

▸ What do you see in the daytime sky? You may see clouds. You may see the sun.

▸ Clouds may be different shapes.



« What a bright, sunny day! The sun lights Earth in the daytime.

« The **sun** is a star. It is the star closest to Earth. A **star** is an object in the sky that gives off its own light. The sun lights Earth in the daytime.



**COMPARE AND CONTRAST** Name one way daytime and nighttime are different.



## ▶ **The Nighttime Sky**

Look at the night sky. What do you see? You may see stars. You may see planets. You may see the moon. The **moon** is a huge ball of rock.

▶ This rock came from the moon. It was once part of the moon.



▶ The moon looks bright, but it does not give off its own light. The moon's light comes from the sun. The moon is not a star.

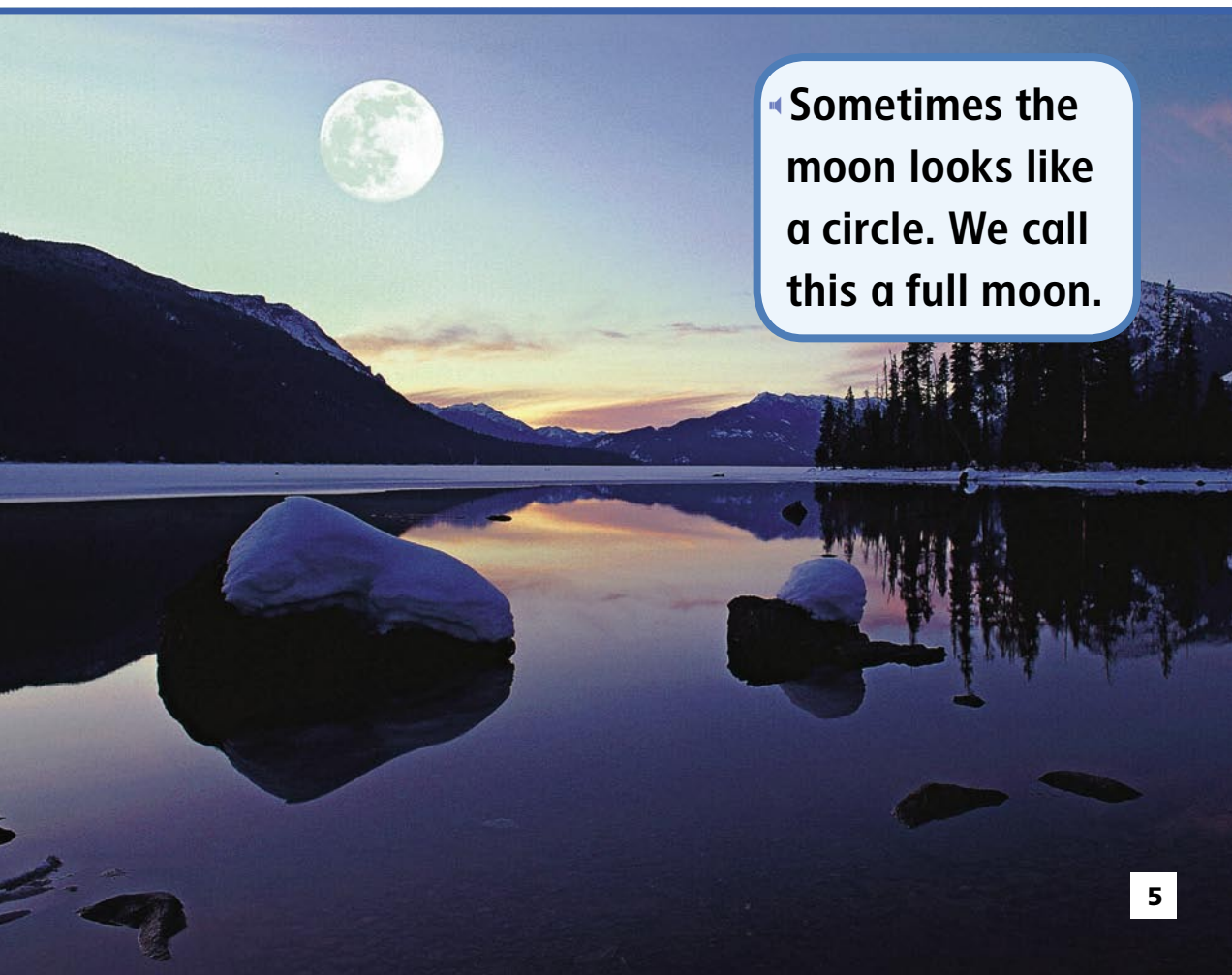
**Fast Fact**

▶ Earth only has one moon. Some planets have more.




**COMPARE AND CONTRAST** How are the sun and the moon different?

▶ Sometimes the moon looks like a circle. We call this a full moon.



## Day or Night?

Look up at the sky. What do you see? You see the sun and clouds. It is bright and sunny. Is it daytime or nighttime? It is daytime!



« This is a bright, sunny day. You see sun and clouds.





◀ Look at all the stars!  
Stars give off their  
own light.

◀ Look up at the sky again. What do you see this time? You see stars, planets, and the moon. Is it daytime or nighttime? It is nighttime!



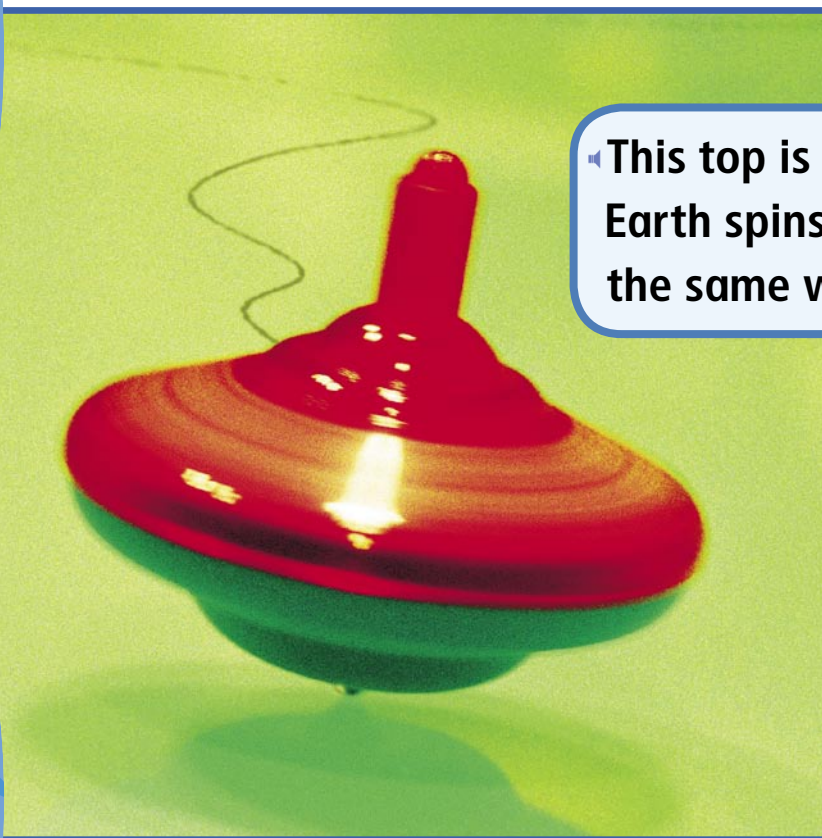
**MAIN IDEA AND DETAILS** What can you see in the daytime sky? What can you see in the nighttime sky?

# Day and Night

The sun seems to move across the sky each day. It is not really moving. It is Earth that moves! Earth **rotates**. It spins like a top.

## ***Fast Fact***

Earth rotates once every 24 hours. There are 24 hours in one day.



This top is spinning. Earth spins in much the same way.



It is daytime in China when it is nighttime in the United States.

It is night. The sky is dark. The side of Earth we live on turns toward the sun as Earth rotates. The sun lights the sky. We have day. Earth keeps rotating. Our side turns away from the sun. The sky gets dark. We have night.



**CAUSE AND EFFECT** Why is it dark at night?



## What Is Moving?

The sun, moon, and stars seem to move. Earth spins slowly. We can not feel it moving. This makes it seem as if the sun, moon, and stars are moving.



**CAUSE AND EFFECT** Why does it seem as if the sun, moon, and stars are moving?



▶ In this picture, New York is turned toward the sun. It is day.



## Summary

We see the sun and clouds in the daytime sky. We see stars, planets, and the moon in the nighttime sky. The sun is a star. The moon is not. Earth rotates. This causes night and day.




◀ In this picture Earth has rotated. It is night in New York.



## ▸ **Glossary**

- **moon** A huge ball of rock in the sky that does not give off its own light (4, 5, 7, 10, 11)
- **rotate** To spin around like a top (8, 9, 11)
- **star** An object in the sky that gives off its own light (3, 4, 5, 7, 10, 11)
- **sun** The star closest to Earth (2, 3, 5, 6, 8, 9, 10, 11)

## ▶ **Think and Write**

- ▶ **1.** Tell what you know about the sky.
- ▶ **2. COMPARE AND CONTRAST** Tell how the sun and the stars are alike.
- ▶ **3. CAUSE AND EFFECT** Why is it daytime in the United States when it is nighttime in China?
- ▶  **4.** Write a list of things you like about nighttime.

## ▶ **Hands-On Activity**

Work with a partner. Make a list of things that tell you it is daytime.

## ▶ **School-Home Connection**

Talk with a family member about the moon and its shape tonight.