

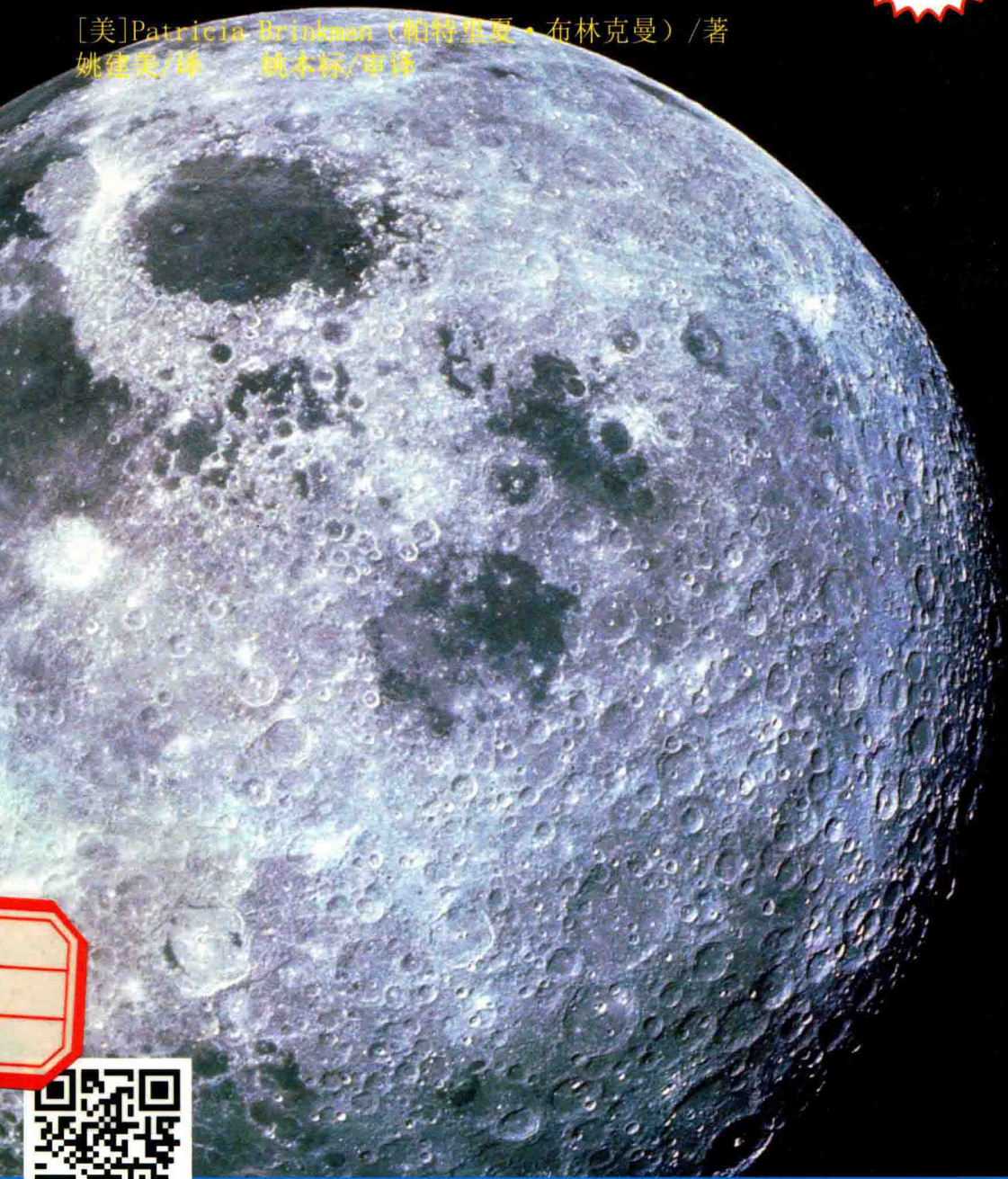
THE SOLAR SYSTEM The Moon

英语科普阅读系列·太阳系

# 神秘的月球 2

小学中高年  
级至初一年  
级适用

[美]Patricia Brinkman (帕特里夏·布林克曼) / 著  
姚建美/译 姚本标/审译



扫一扫，得音频

漓江出版社



*The Moon*

SHENMI DE YUEQIU

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THE SOLAR SYSTEM: The Moon

by Patricia Brinkman

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*Before you read...*

1. What do you know about the moon?  
\_\_\_\_\_
2. Why do you think the moon seems  
to change?  
\_\_\_\_\_
3. What did astronauts do on the moon?



*After you read . . .*

**Materials:**

- paper
- markers or crayons

**Instructions:**

1. Work with a partner.
2. Discuss what the moon is like.
3. List what people would need to live on the moon.



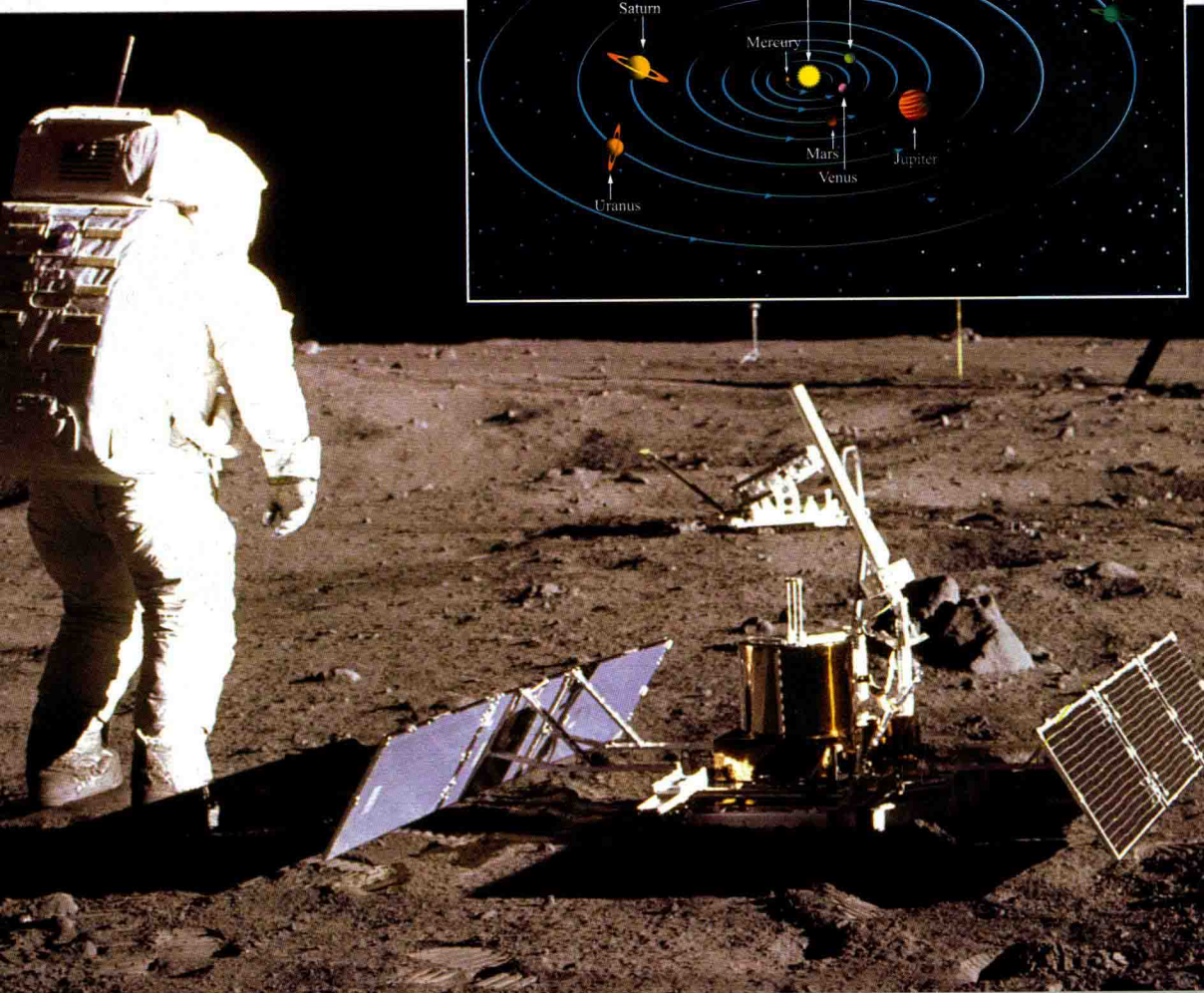
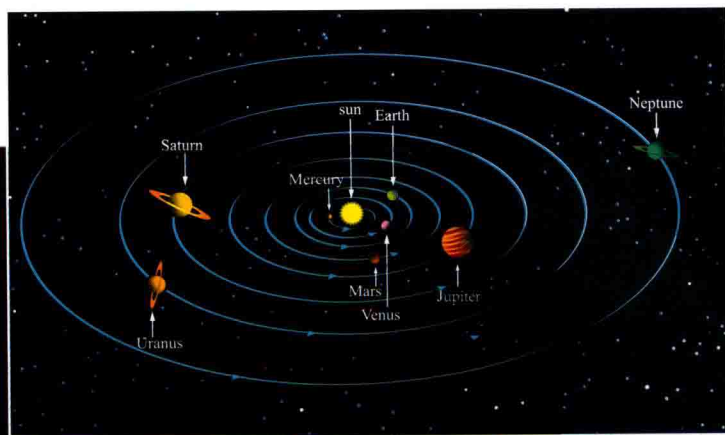
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# Introduction

The **moon** is part of our **solar system**.

Scientists know what the moon is like. Scientists know why the moon seems different.

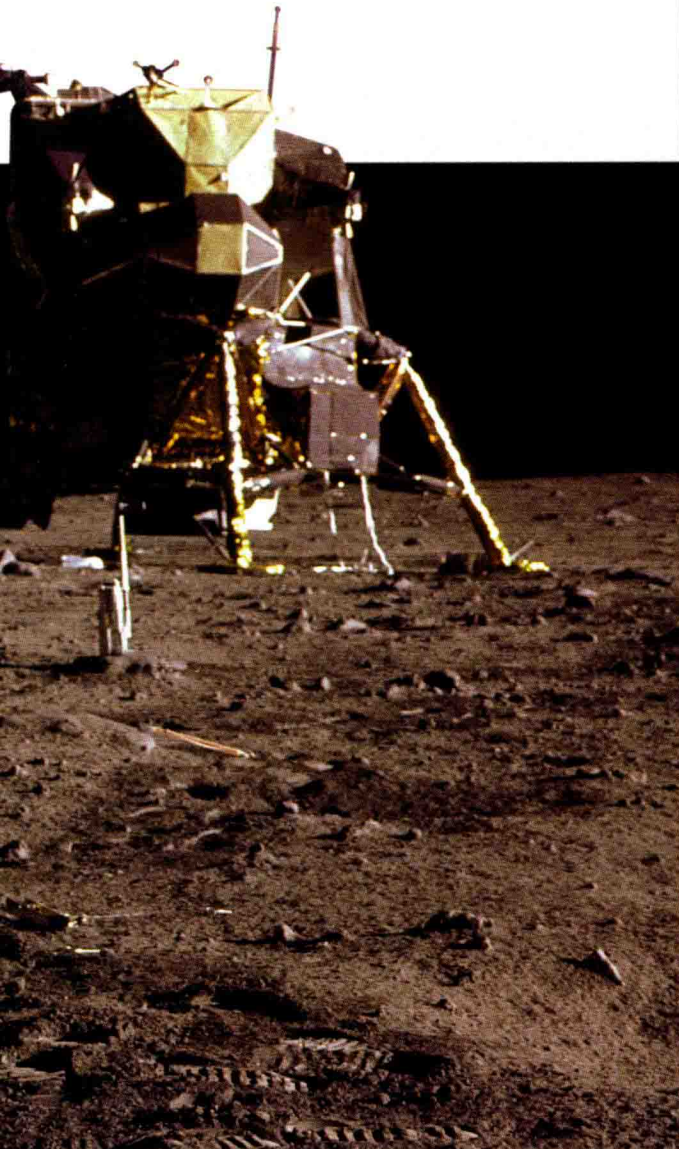


▲ Scientists learn about the moon.



## Words to Know

Read to learn more  
about the moon.



astronauts



craters



Earth



moon



orbits



phases



rockets



scientists



solar system

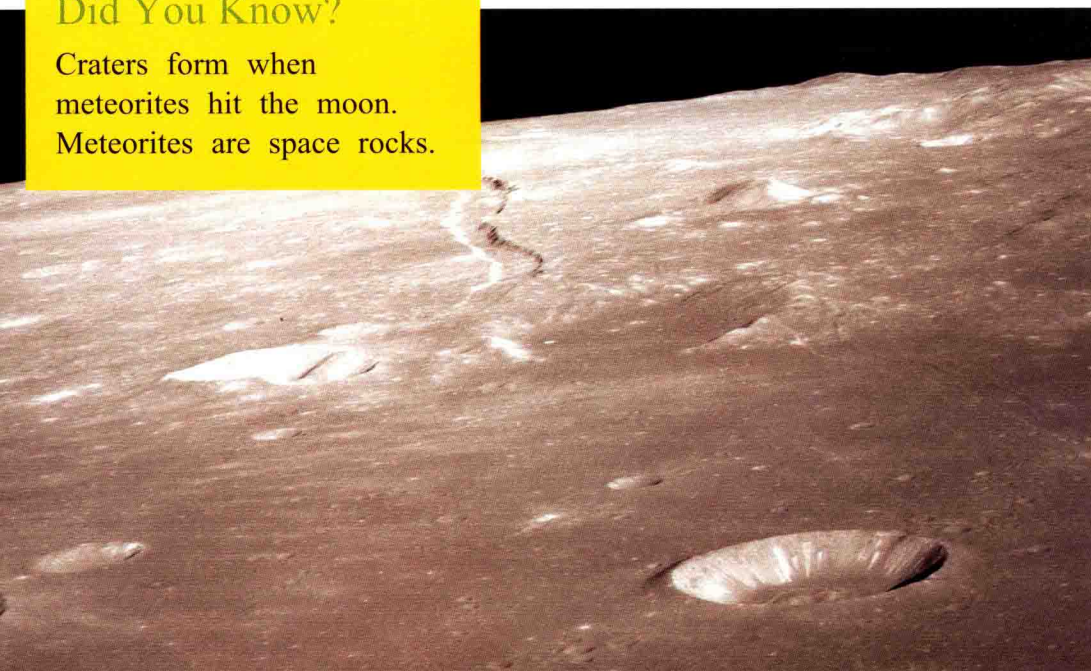
See the Glossary  
on page 22.

# What Is the Moon Like?

The moon is a dull gray color. A layer of dust covers the surface. The moon has mountains. The moon has **craters**.

## Did You Know?

Craters form when meteorites hit the moon. Meteorites are space rocks.



▲ The surface of the moon has craters.

## Try This

1. Fill a plastic container with sand.
2. Drop different-sized balls into the sand.
3. The sand is the surface of the moon.  
The balls are different-sized meteorites.
4. Watch how the balls form different craters.



The moon is mostly rock. The moon is minerals.  
The moon is basalt. Basalt is a hard rock.



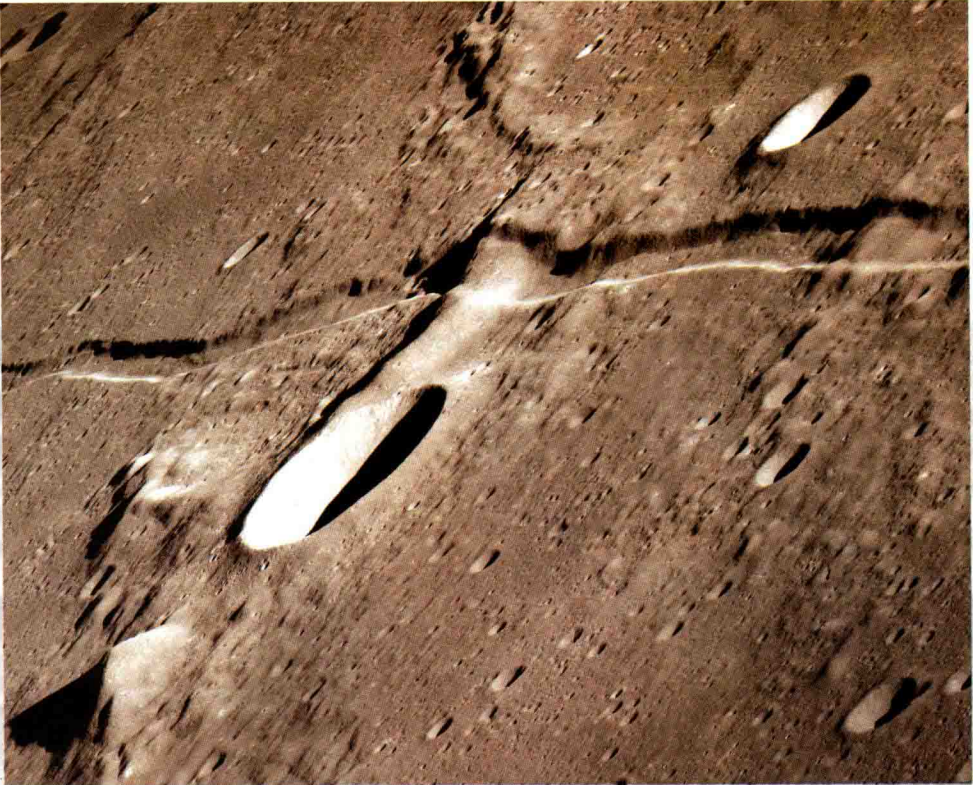
▲ The moon has rocks.



The moon is smaller than the sun. The moon is smaller than **Earth**. Earth is the size of four moons.



The moon has no air. The moon has no water.  
Nothing lives on the moon.



▲ The moon does not have living things.

## Solve This

The moon has very hot temperatures. Sometimes the temperature is  $261^{\circ}$  Fahrenheit ( $127^{\circ}$  Celsius). The moon has very cold temperatures. Sometimes the temperature is  $-297^{\circ}$  Fahrenheit ( $-183^{\circ}$  Celsius). What is the difference between the temperatures?

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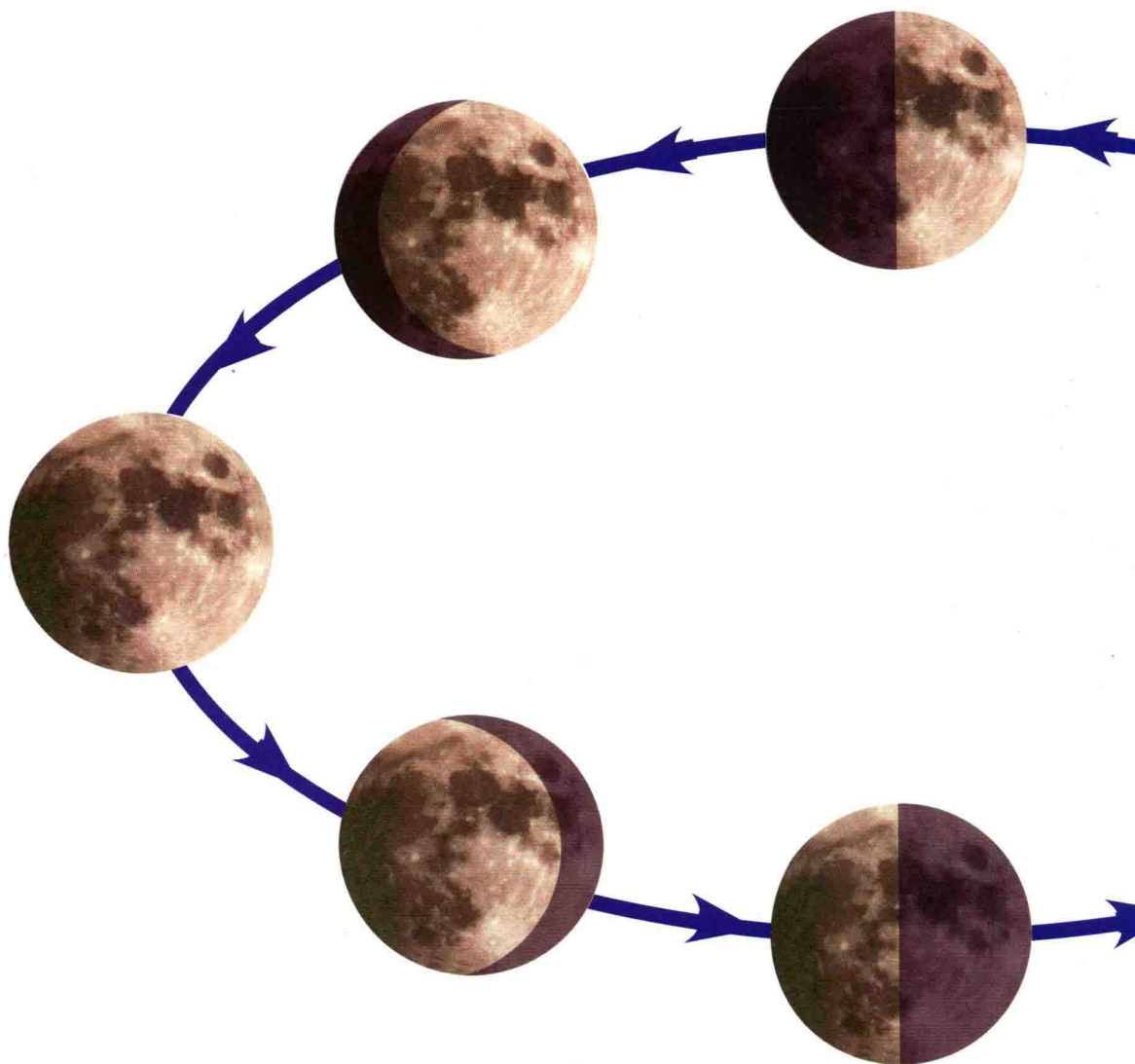
Answer:  $558^{\circ}$  Fahrenheit ( $310^{\circ}$  Celsius)



# Why Does the Moon Appear Different?

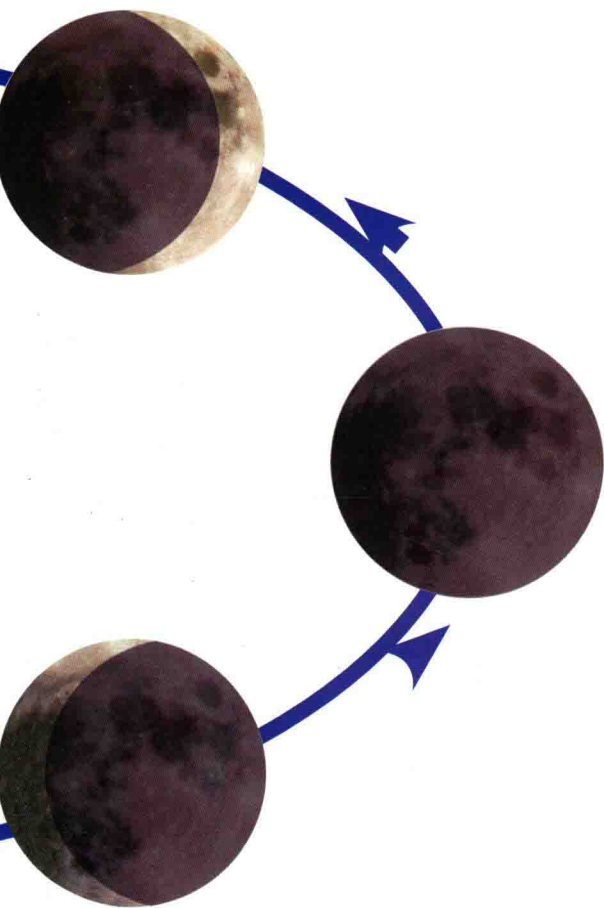
The moon is always round. The moon seems to have different shapes. People see shapes because of light.

The different shapes of the moon are **phases**.



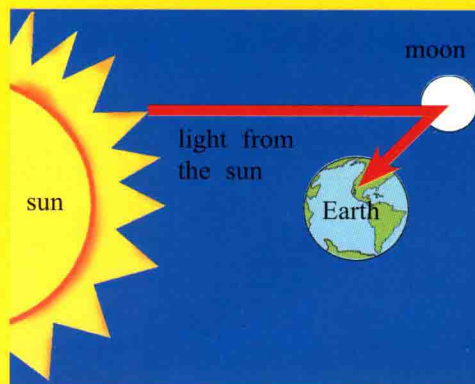


The moon does not make light. The moon reflects light from the sun. Different amounts of light make the phases.

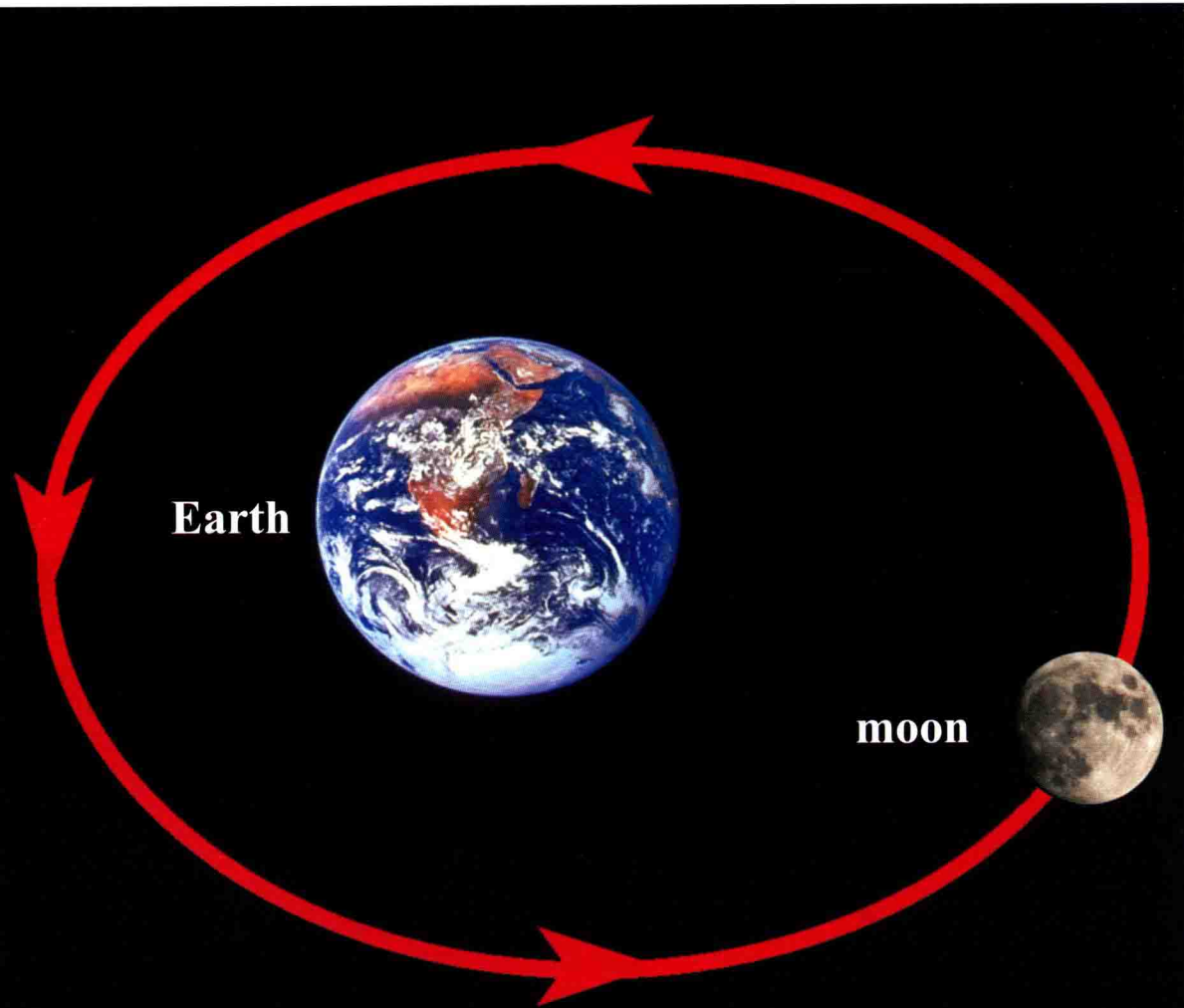


### Did You Know?

Light goes from the sun.  
Light goes to the moon.  
Light reflects from the moon.  
The surface of the moon reflects light.



The moon moves. The moon **orbits** Earth. The moon moves around Earth.



### Did You Know?

The moon orbits Earth. People see different parts of the moon. The moon seems to change shape. The different shapes are phases.

The moon also rotates. The moon spins.  
The spinning does not make the moon  
appear different.

