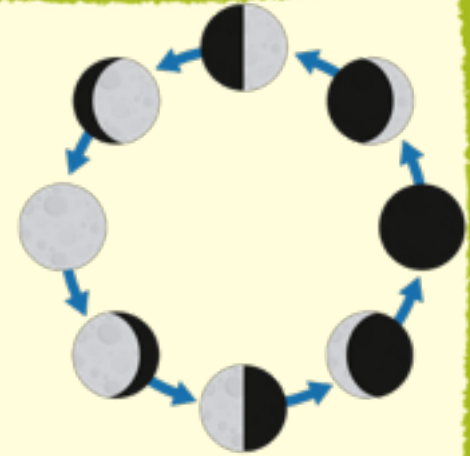


# PHASES

of the

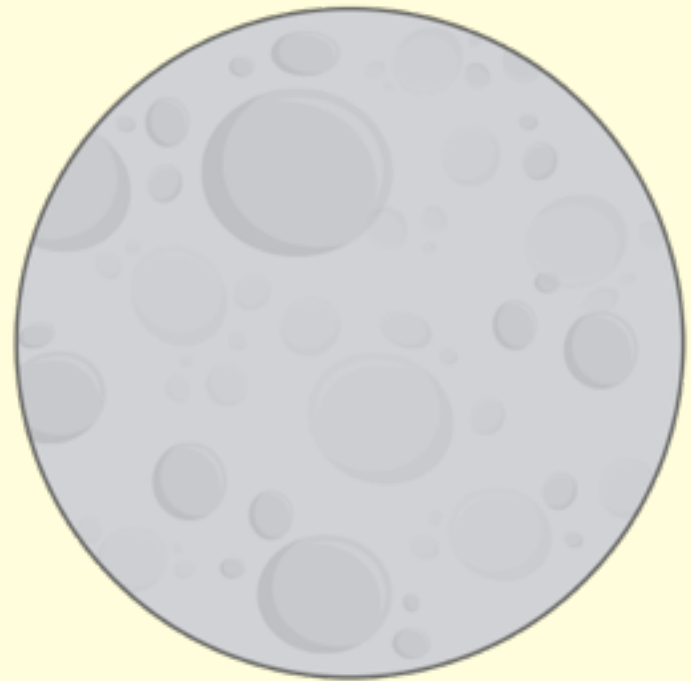
# MOON



**PowerPoint & Notes  
Set**

# Earth's Moon

- The Moon revolves around the Earth.
- It takes the Moon 27 1/3 days to revolve around Earth.
- The Moon does not make its own light. It reflects the Sun's light.



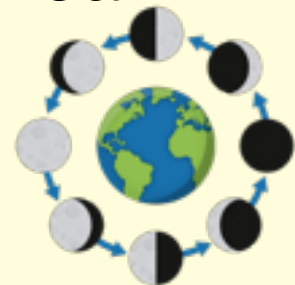
# Earth's Moon

- The Moon is made of rock and dust.
- It is covered with mountains, flat areas, and craters.
- A **crater** is a dent that is shaped like bowl.
- There is no air or water on the Moon.
- The Moon gets very hot in the day and very cold at night.



# Near Side of the Moon

- As the Moon revolves around the Earth, it also rotates on its axis once in  $27 \frac{1}{3}$  days.
- The same side of the Moon is always facing Earth.
- This side is called the near side.
- The reflected sunlight makes the near side of the Moon look bright.



# Dark Side of the Moon

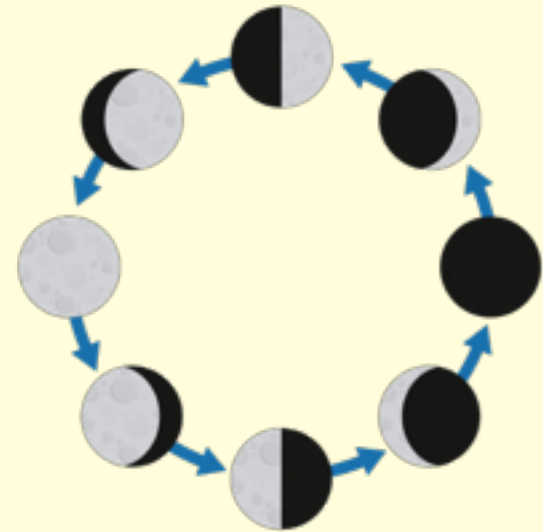


- The side of the Moon that you cannot see from Earth is called the dark side.



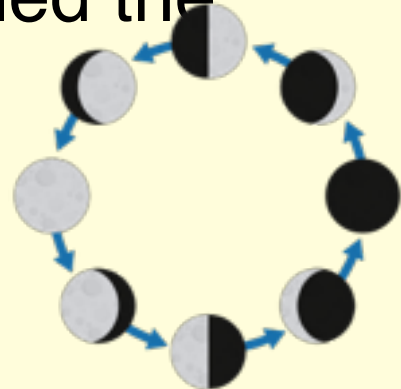
# Does the Moon change shape?

- The Moon does not actually change shape.
- It appears to change shape because the near side of the Moon, which faces the Earth, gets different amounts of sunlight at different times.



# Phases of the Moon

- The Moon revolves and rotates every 27 1/3 days.
- During this time, the Moon takes on eight different forms.
- The different ways the Moon looks throughout the month are called the **phases of the Moon**.



# New Moon



- The first phase is called the **New Moon**.
- The Moon's near side does not get any sunlight.
- The near side of the Moon is dark, and you cannot see it.



# Waxing Crescent



- The second phase is called a **waxing crescent**.
- A little bit of the Moon's near side gets sunlight.
- This thin shape is called a **crescent moon**.

# First Quarter



- The third phase is called a **first quarter moon**.
- Half of the Moon's near side, or one quarter of the whole Moon, faces the sun.
- From Earth, the quarter moon looks like half of a ball.

# Waxing Gibbous



- The fourth phase is called a **waxing gibbous**.
- During this phase, three-quarters of the near side gets sunlight.
- This **gibbous** shape looks like a circle with a small bite taken out of it.

# Full Moon



- The fifth phase is called a **full moon**.
- During this phase, the Moon has revolved halfway around Earth.
- The entire near side gets sunlight.
- From Earth, this phase looks like a whole ball.

# Waning Gibbous



- The sixth phase is called a **waning gibbous**.
- A little bit less of the Moon's near side gets sunlight.
- This waning moon looks like a circle with a small bite taken out of the right side.

# Third Quarter



- The seventh phase is called a **third quarter moon**.
- Similar to the third phase (First Quarter), it looks like half of a ball to people on Earth.
- During this phase, the left side is lit up.

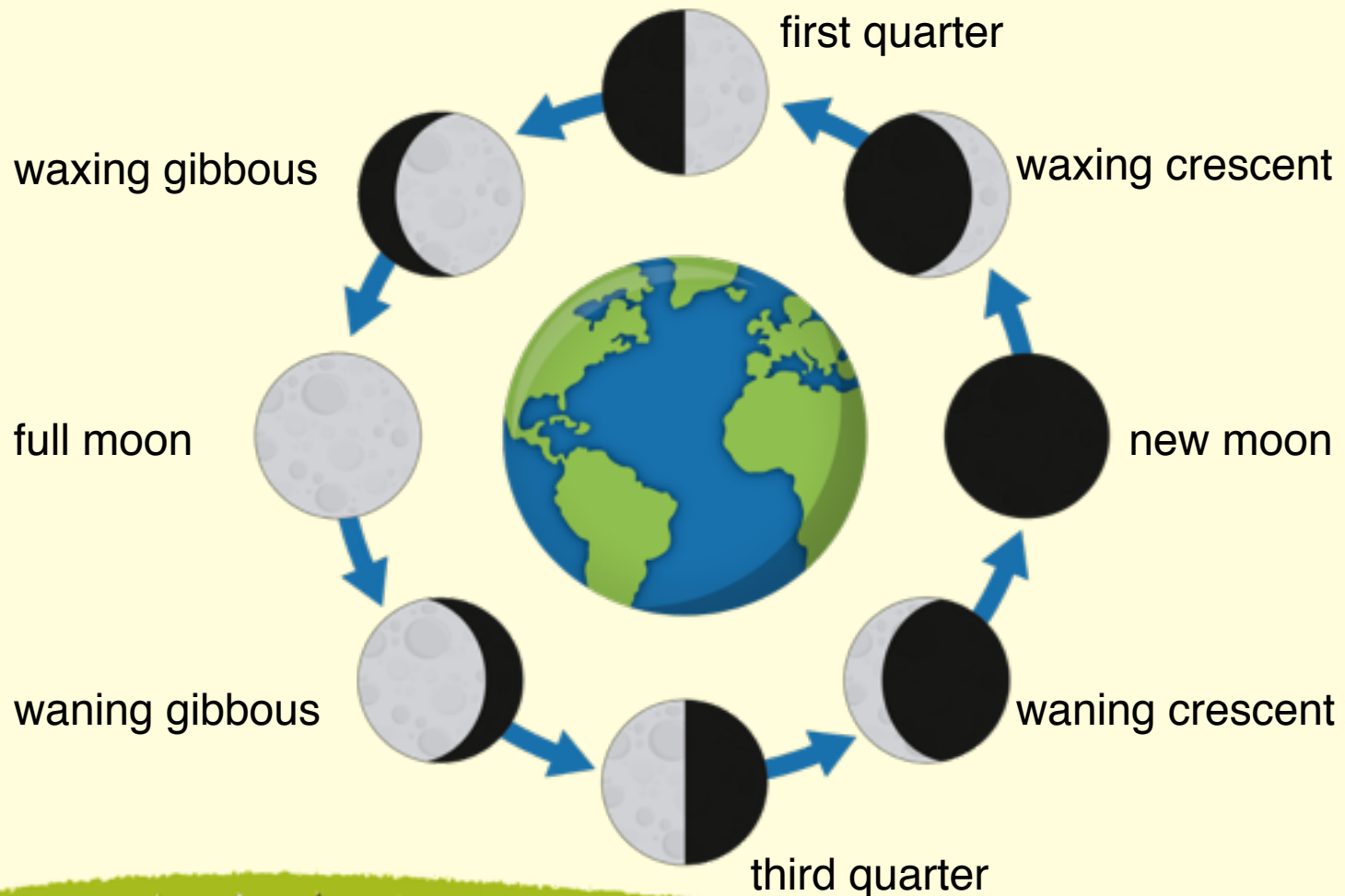


# Waning Crescent



- The eighth phase is called a **waning crescent**.
- Similar to the second phase, they are both thin crescents.
- After this phase, a new moon happens again and the phases start all over again.

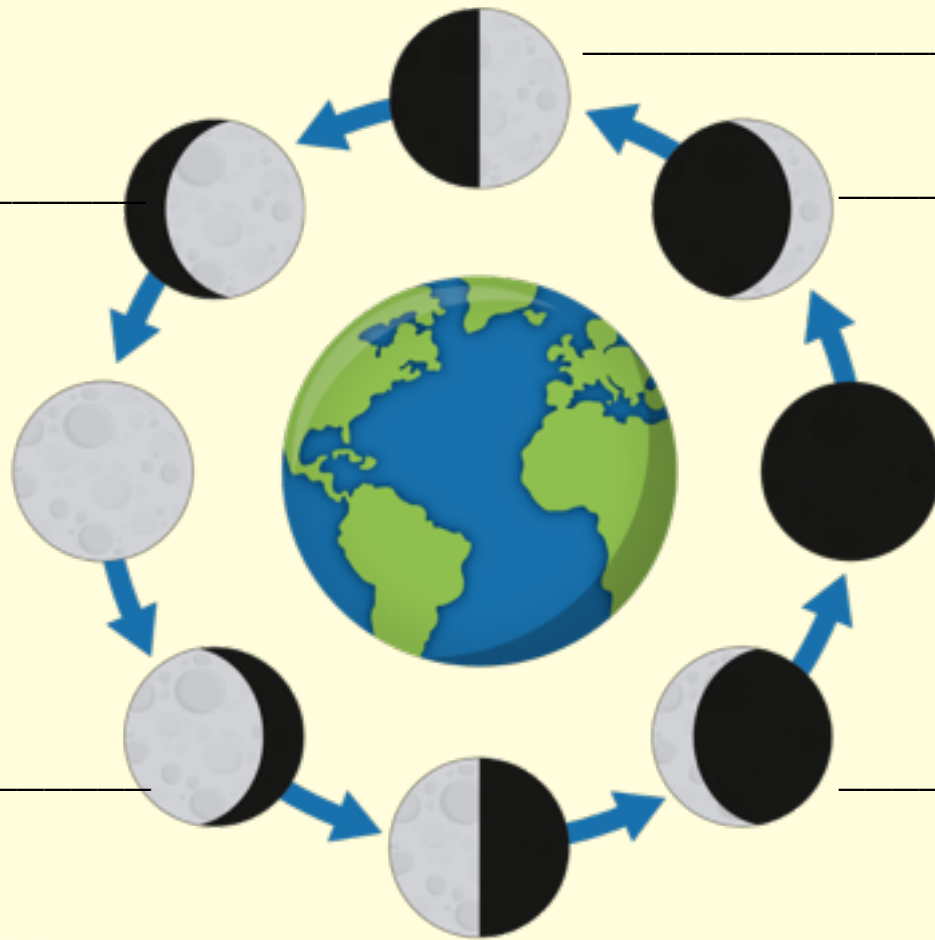
# Phase of the Moon



**sun**

# Phase of the Moon

sun



# Reflection

- Tell 3 facts about the surface of the moon.
- Why does the same side of the Moon always face Earth?
- What are two different ways that the Moon moves?
- What is the changing shape of the Moon called?

# Reflection

- Tell 3 facts about the surface of the moon.
  - The Moon is made of rock and dust.
  - It is covered with mountains, flat areas, and craters.
  - There is no air or water on the Moon.
  - The Moon gets very hot in the day and very cold at night.

# Reflection

- Why does the same side of the Moon always face Earth?

**The Moon revolves and rotates the same way every 27 1/3 days.**



# Reflection

- What are two different ways that the Moon moves?

**The Moon revolves around Earth every  $27 \frac{1}{3}$  days.**

**The Moon rotates on its axis every  $27 \frac{1}{3}$  days.**

# Reflection

- What is the changing shape of the Moon called?

**The changing shapes of the Moon are called the phases of the Moon.**