



16

The Earth and The Sky

We'll cover the following key points:

- The Earth and The Sun
- The Moon



Hi, I'm EeeBee

Do you Remember:

Fundamental concept in previous class.
In class 1.. we learnt

- Day Time Sky
- Night Time Sky

Still curious?
Talk to me by scanning the QR code.



Learning Outcomes

By the end of this chapter, students will be able to:

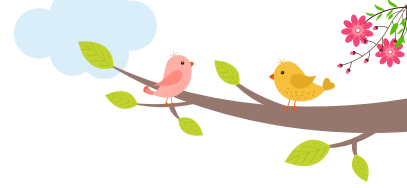
- Learn that the Earth is round and moves around the Sun.
- Understand that the sky looks different during the day and night.
- Know that the Sun gives us light and heat during the day.
- Learn that the Moon shines at night and changes its shape.



Let's Start

In the classroom.



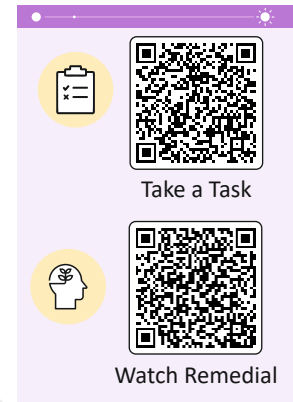


THE EARTH AND THE SUN

We live on the earth. Animals and other living things also live on it. Plants too grow on the earth.

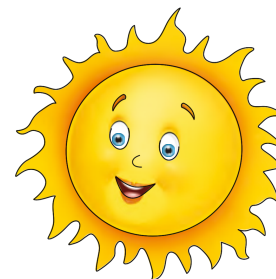
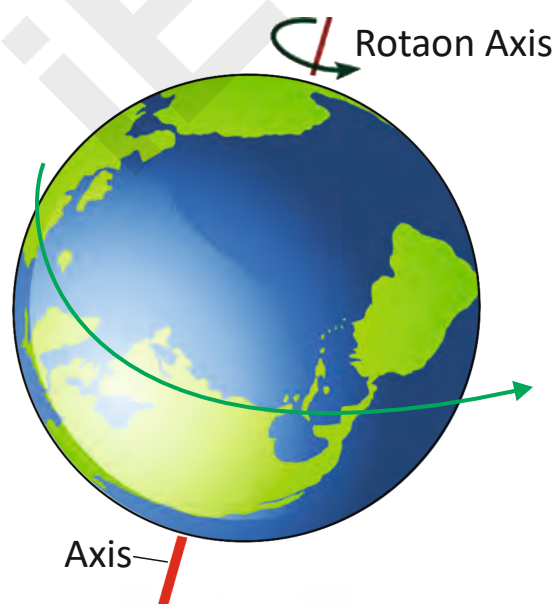


Our Earth



The Earth is a planet. A **Globe** is a small model of the earth. Most part of the earth is covered with water. It is in the form of oceans, rivers, ponds and lakes. Rest part of the earth is land. The earth is round like an orange.

- The earth spins on its axis. It also revolves round the sun.
- The sun is round in shape. It is made up of hot burning gases.
- The earth is much smaller than the sun. It is a planet of the sun.

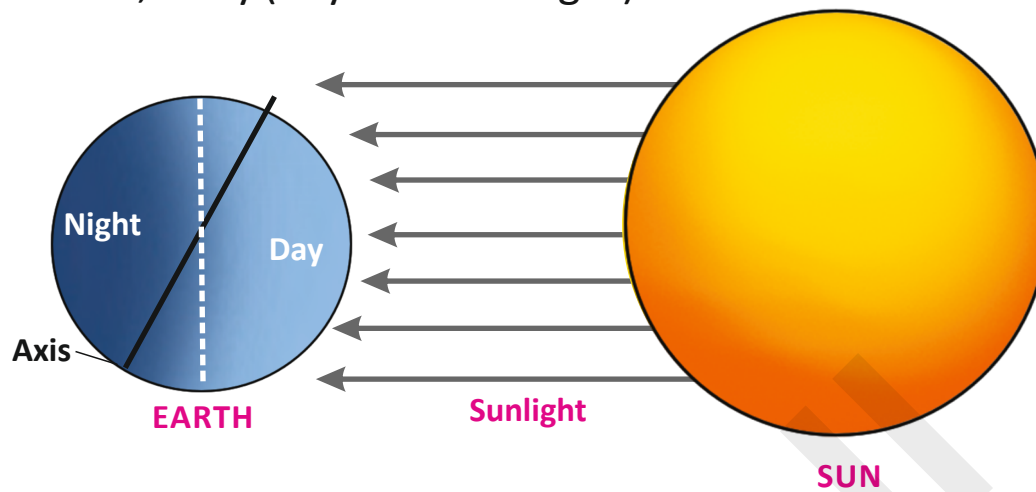


Movement of the earth on its axis



It takes 24 hours for the earth to complete one rotation.

The side of the earth facing the sun has **day** and the side away from the sun has **night**. Thus, 1 day (daytime and night) has 24 hours.



Formation of day and night

The earth completes revolving around the sun in **365 days**. Thus, a year has 365 days. The movement of the earth **around** the sun causes **seasons**.



Let's Do

Activity: To find out how days and nights occur

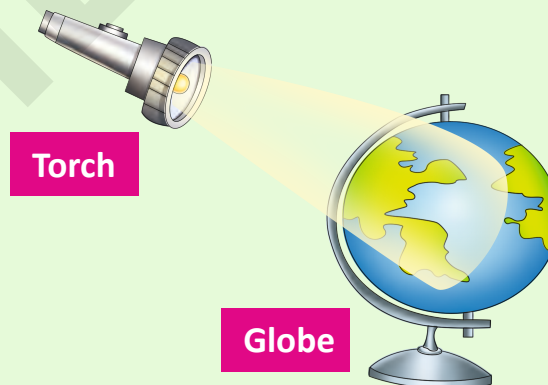
Materials required :

(a) A globe

(b) A torch

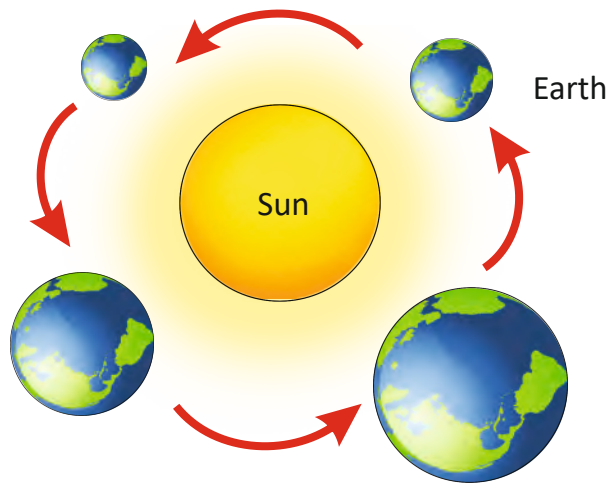
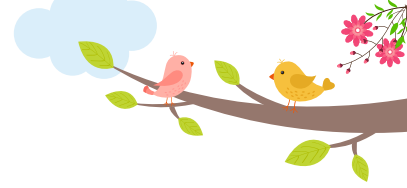
Take a globe and a torch.

Go in a dark room. Shine the torch on one side of the globe and keep it rotating.



Findings :

1. The side facing the torch has light. So, it is day there.
2. The side away from the torch is dark. So, it is night there.



Movement of the earth around the Sun

THE MOON

Moon is also round in shape. It is much smaller than the earth. The earth is five times bigger than the moon. It is a **satellite** of the earth.



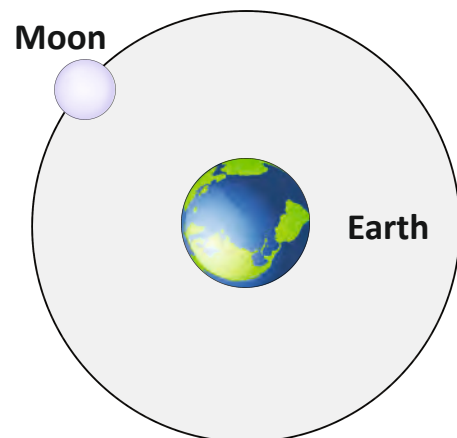
Moon

The moon revolves round the Earth.

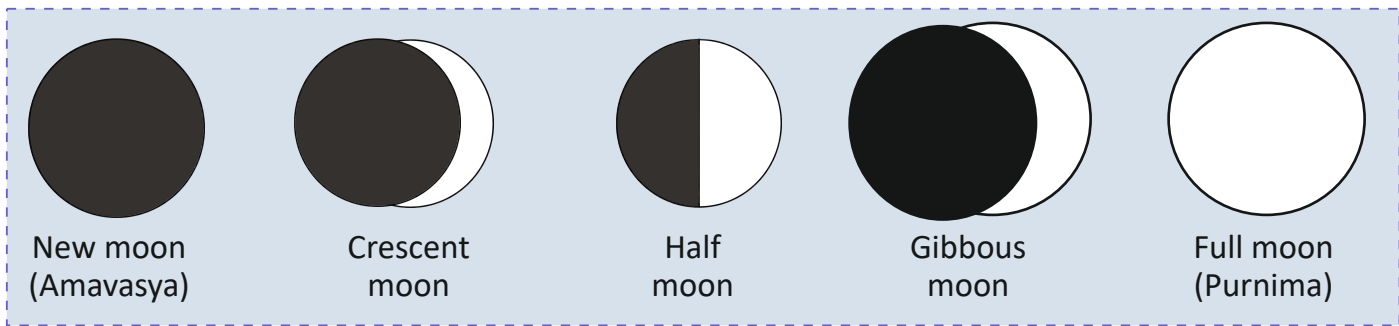
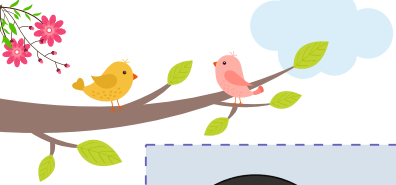
There is no air or water on the moon.

There is no life on the moon.

An American astronaut, **Neil Armstrong** was the first man to walk on the moon. Moon does not look the same every night. It keeps on changing its shapes. These shapes are called the **phases** of the moon. Various phases of moon are as following:



Moon- the satellite of the Earth



Phases of the Moon



Word Treasure

- **Spin** : Rotate.
- **Axis** : An imaginary line passing through the earth.
- **Satellite** : A heavenly body moving around the earth.
- **Astronaut** : A person who travels in space.
- **Phases** : Stages or shapes of Moon.



Let's Revise

- The earth is a planet of the Sun.
- The rotation of the earth causes days and nights and the revolution of the earth around the sun causes seasons.
- The moon is a satellite. It revolves round the earth.

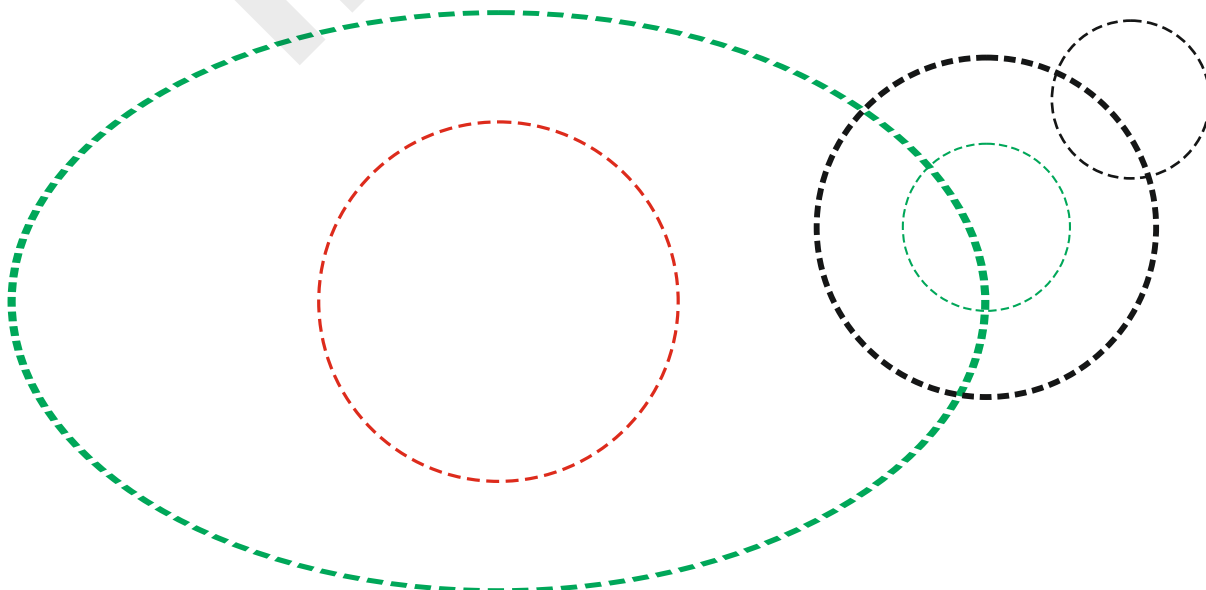


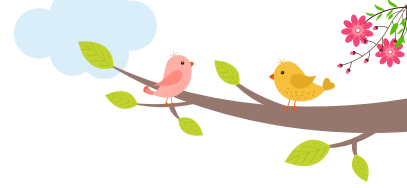
Gap Analyzer..
Take a Test

Clean and Green Exercises



A. Colour and label the drawings as the sun, the earth and the moon:





B. Answer the following questions:

1. How long does the earth take to rotate on its axis once?

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2. What does the rotation of the earth on its axis cause?

.....

3. Write any two phases of the moon.

(a) (b)

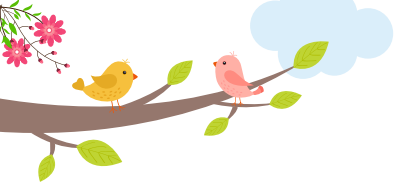
4. What causes seasons?

.....

5. Who was the first man to walk on the moon?

.....

C. Draw various phases of the moon:



Here are two eclipses. Write each one's name. You can ask your teacher also.

Condion of the earth	Name of eclipse
1. When the earth comes between the sun and the moon.	
2. When the moon comes between the sun and the earth.	

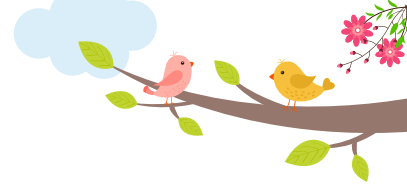


Custom Learning Path



Why dayme in summer season is longer than the night? You can ask your teacher and parents to write answer in one line.

Wonder Explorers



The Earth and The Sun

STEM

Let's learn about the relationship between the Earth and the Sun and how they impact our lives.

Activity: Sun and Shadows

1. **Task:** Observe shadows outside at different times of the day.
2. **Steps:** Note how the shadows change in size and direction.
3. **Activity:** Share your observations with the class and discuss how the Sun affects shadows.

Learning

Understand how the Earth and Sun interact, causing day and night and influencing life on Earth.

Skills Covered: Observation, Creativity, Communication

Little Techies

Artificial Intelligence

Ask an AI device like Alexa or Siri:

1. What causes day and night on Earth?
2. Why does the Moon change its shape?

Skills Covered: Logical thinking, Digital literacy, Curiosity

Colors and Creations

Art

Draw a picture of the Earth, Sun, and Moon. Show the Sun shining on the Earth and the Moon in the night sky. Use bright colors and label each part. Share your drawing and explain the relationships.

Skills Covered: Creativity, Expression, Collaboration

Language Links

Learn and write the names of the Earth, Sun, and Moon in your mother tongue and one other language. Discuss how people in different cultures view the Sun and Moon.

Skills Covered: Language awareness, Social skills

