

30/03/20

Lesson 1- Our Universe

Class: 3

Good Morning Children,

Today we are going to study about “Our Universe”.

Note: Please read the chapter (Pg. 11, 12 and 13)

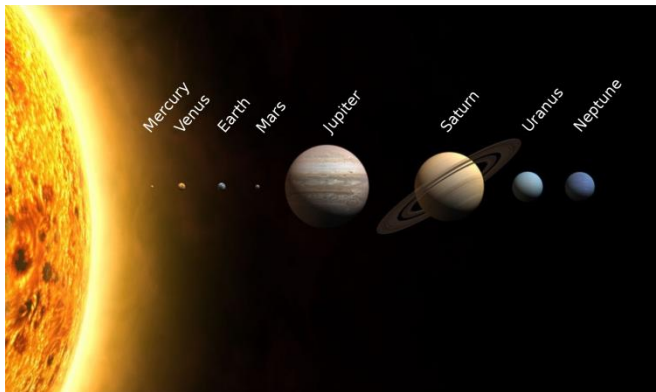
Go through the following link for the explanation:

<https://www.youtube.com/watch?v=GoQ0tO-olos>

In this chapter we will learn about:

***The Universe** : Everything that we can and cannot see, exists within the universe. It consists of galaxies, planets , stars , meteorites, satellites and many other things.

***The Solar System** : The solar system is made up of all the planets and other celestial bodies that move around the sun. It also consists of moons, comets, asteroids, minor planets, dust and gas.



The Solar System

***The Sun** : The sun is by far the largest object in the solar system. It contains more than 99.8% of the total mass of the solar system. It is a huge ball of gases. We get heat and light from the sun. It is the only body in the solar system which has its own light.



The Sun

***Planets:** Our solar system has eight planets revolving around the sun. Planets only shine by the reflected light of the sun. The planets revolve around the sun in their fixed orbits. This movement of planets around the sun is called **revolution**.

The planets also rotate on their axis. This movement is called **rotation**.

Follow the link given below for further details.

<https://www.youtube.com/watch?v=F2prtmPEjOc>

***The Moon:** The moon is also a celestial body or a part of the solar system. It is the only natural satellite of the earth. The moon does not have its own heat or light. It shines as it reflects the sun that falls on it.



The Moon

The moon appears to change its shape. These changes are known as the **phases of the moon**.



Phases of the moon

Assessment Zone (Pg. 13 and 14) (To be done in the text book)

Q1. Tick the correct option.

1. d. All of these
2. c. Revolution
3. d. Planet
4. d. Phases of the moon
5. b. eight

QII. Fill in the blanks.

1. Universe
2. Milky Way
3. Sun
4. Moon
5. Orbit

QIII. Mark the statements as True or False.

1. False
2. False
3. False
4. True
5. True

QIV. Answer the following questions briefly. (To be done in the copy)

A1. There are eight planets in the solar system.

A2. The planets in the solar system are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

A3. The moon is the natural satellite of the earth.

A4. The Earth is called the blue planet.

A5. The sun is situated in the centre of the solar system.

QV. Answer the following questions. (To be done in the copy)

A1. The universe is a vast place. Everything that we can and cannot see, exists within the universe. It consists of galaxies, planets, stars, meteorites, satellites and many other things.

A2. It is believed that the universe was formed out of a huge explosion called the 'Big Bang' many years ago. At the time of the big bang, things in the universe were hot and tightly packed. After the explosion, the universe started expanding. All the things began to cool down which led to the formation of stars, planets, solar system, galaxies and various celestial bodies.

A3. The earth is called a unique planet because it is the only planet that has water and life.

A4. The moon takes 27.5 days to complete one revolution of the earth.

A5. The movement of the earth on its own axis is called rotation. The movement of the earth around the sun in a fixed path is called a revolution.

Extra Question

Q6. Differentiate between Stars and Planets.

A6.

Star	Planet
1. A star gives out light.	1. A planet only shines by the reflected light of the sun.
2. A star is larger than a planet.	2. Planets are smaller but appear larger as they are closer to the earth.
3. A star twinkles	3. A planet does not twinkle.

- Please copy all questions and answers in the copy.
- Draw The solar system, The sun and the phases of the moon in the copy.
- Use a 200 Pages practical copy for SST.

