

PANCHSHEEL PUBLIC SCHOOL



CURIOUS MINDS - III
TERM - 2



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TERM 2

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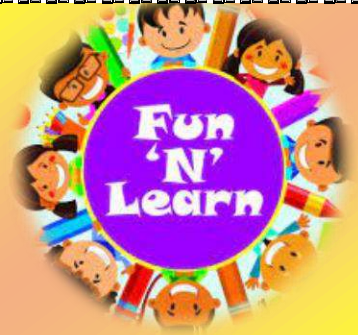
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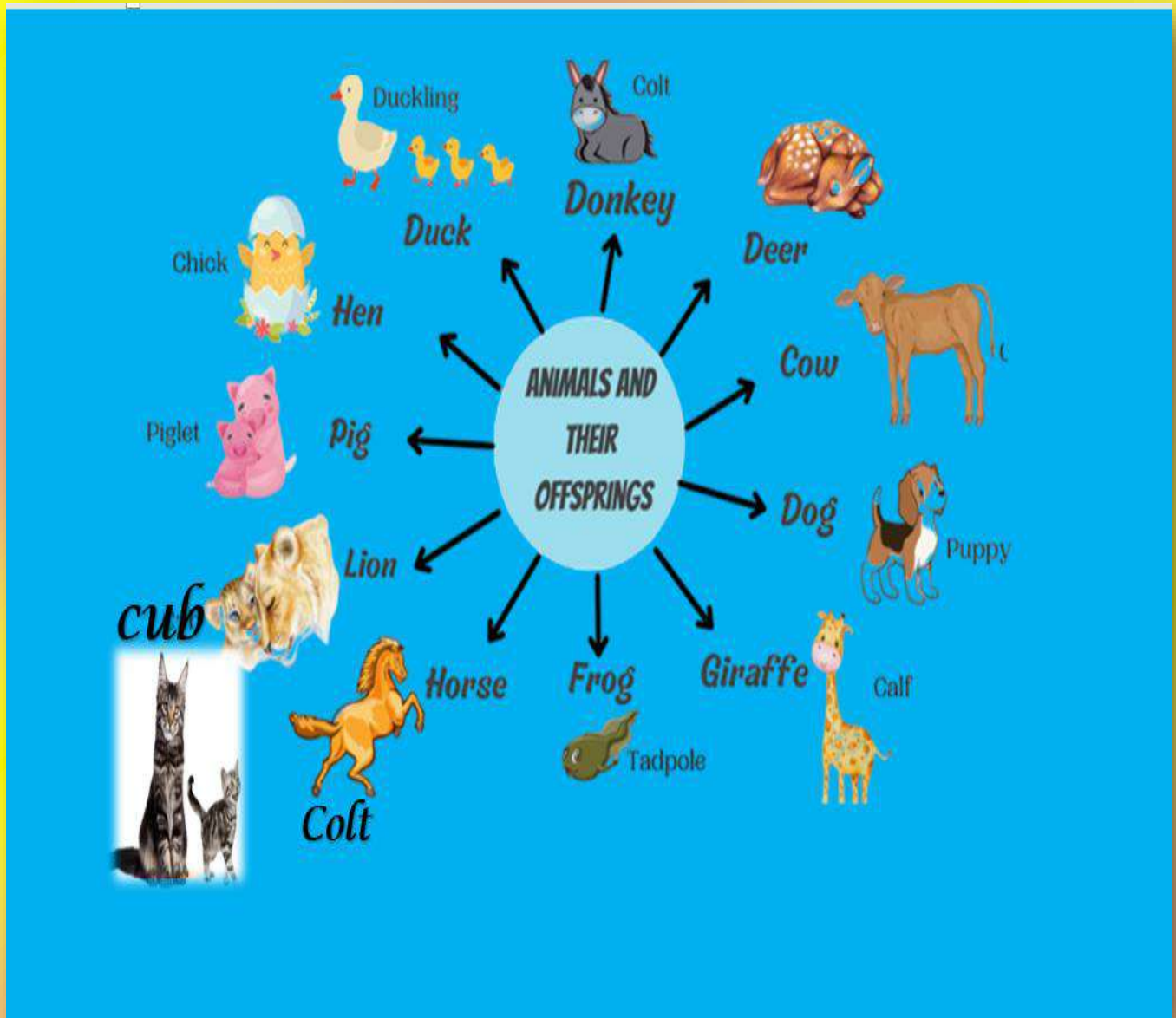
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OFF SPRINGS



- Animals are living beings who eat, grow, get old and die.
- One of the most important features of all living beings on Earth is giving birth to babies. The process by which they give birth to their offspring is called reproduction.
- Let us look at baby animal images below.



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AMAZING FACTS

- Mother dogs can give birth to more than one puppy at a time. This group of puppies is called a litter.
- Tadpoles hatch out of the frog's eggs only when they are in the water.
- The baby of a blue whale is called a calf and weighs up to 150,000 kg.
- The babies of giraffes and horses start walking after 1 hour of their birth.

TEST YOUR KNOWLEDGE

IDENTIFY THE ANIMALS AND WRITE THE NAME OF THE ANIMAL AND THEIR OFF SPRINGS:















RIDDLES

WHAT LETTER COMES AFTER 'B'
IN THE ALPHABET

WHAT LETTER WIDENS

A

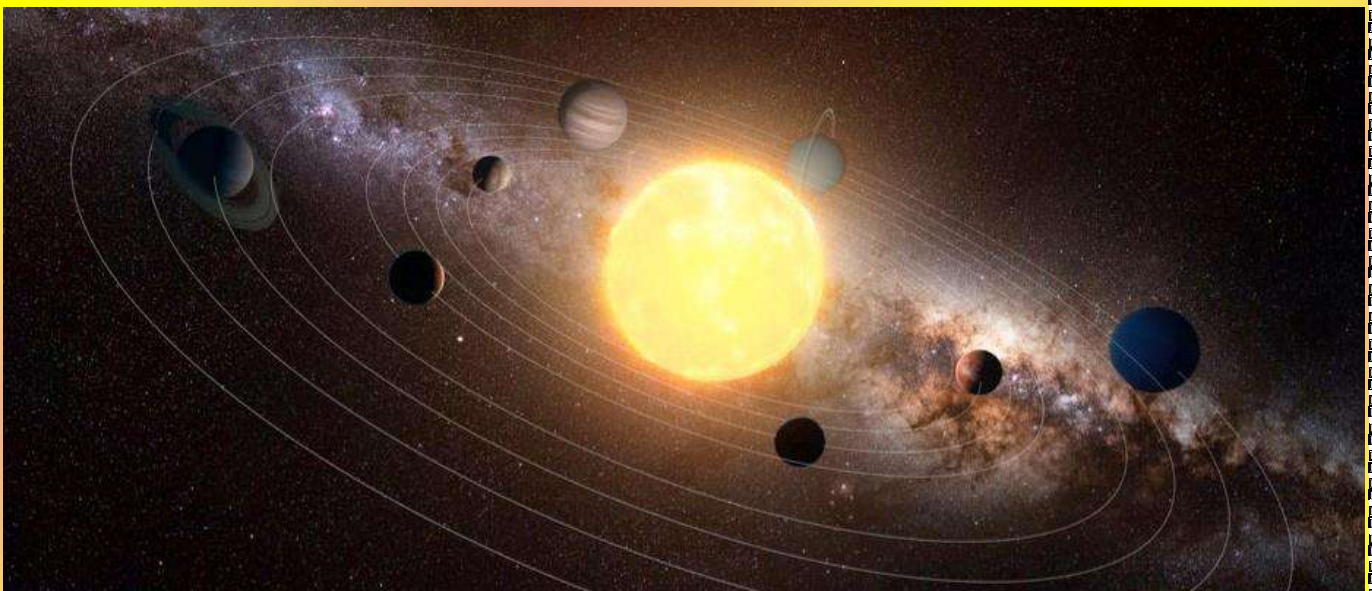
ROAD

THE SOLAR SYSTEM



The Sun is a big star Planets are bodies moving around the Sun. The Sun and the stars produce their own light. Planets do not produce their own OR light. The path along which a planet moves is called an orbit Moons or satellites are rocky bodies that travel in orbit around a planet The Earth has one moon.

The sun, the eight planets, and other smaller bodies made of rock, metal etc. called asteroids that go round the sun make up our solar system.



As per the Scientific Union of Astronomers, an object is said to be a planet if-

1. It orbits around the star.
2. It is big enough to look like a sphere.
3. It has a specific orbit that is not occupied by any other heavenly body..

Let's talk about eight planets

1. Mercury:

- It is the smallest planet in the solar system and is also the closest to the Sun.
- It does not have an atmosphere. So, the days are very hot and the nights are equally cold.
- Mercury's one year is of 88 Earth days. It does not have any moon.



2. Venus:



- It is the second planet from the Sun.
- Its size is similar to that of the Earth. However, it is surrounded by a toxic and thick atmosphere of carbon dioxide. Therefore, it is the hottest planet in the solar system.
- 225 Earth days make one year on Venus.
- It has no moons.

3. Earth

- It is the only known planet in the solar system with the presence of liquid water and life on it.
- The Earth's atmosphere is formed of a mixture of many gases suitable for the survival of life. This atmosphere shields the Earth from the harmful sun rays.
- 365 days make 1 year on Earth.
- It has one moon.



4. Mars

- It is the fourth planet from the Sun.
- It has a deserted, cold surface with a very thin atmosphere around it.
- 687 Earth days make 1 year on Mars. It has 2 moons. Mars is the only inner planet to have moons.



5. Jupiter

- It is the fifth planet from the Sun and the first outer planet.
- It is a gas giant and has faded dust rings around it. Jupiter is the largest planet in the solar system.
- 4333 Earth days make 1 year on Jupiter.
- It has 79 moons.



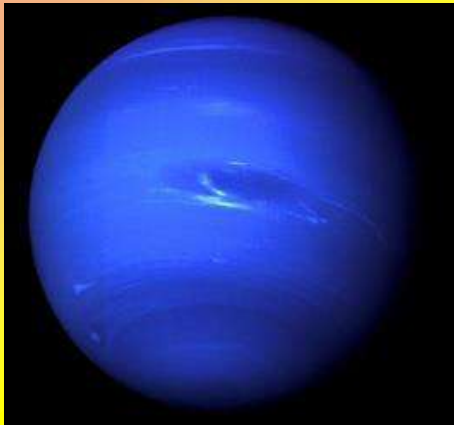


6. Saturn

- It is the 6th planet from the Sun.
- It has a system of rings around it. Galileo observed these in 1610 for the first time.
- Around 10,585 Earth days make one year on Saturn.
- It has the highest number of moons, i.e., 82.

7. Uranus

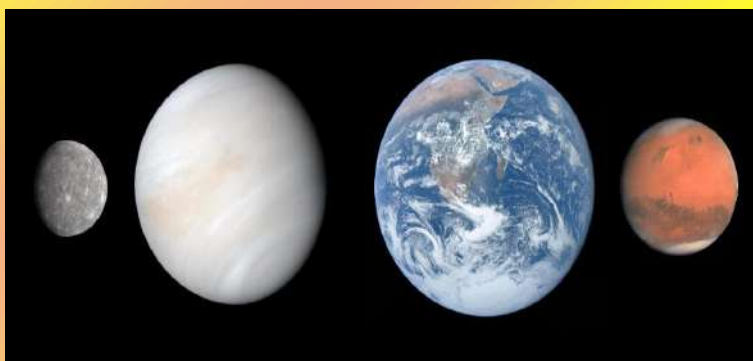
1. It is the 7th planet from the Sun and also the third biggest planet.
2. Uranus has 13 known narrow rings around it.
3. The bright blue colour of the planet is because of the presence of methane in its atmosphere.
4. Around 30660 Earth days make 1 year on Uranus. .
5. It has 27 moons.



8. Neptune

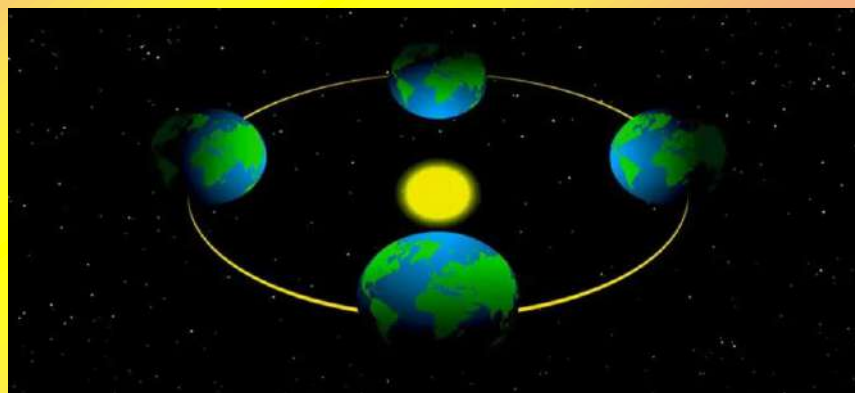
- It is the 8th planet from the Sun.
 - It is an icy, dark blue giant planet of our solar system.
 - Neptune is surrounded by rings made of dust and debris.
 - Around 16,225 Earth days make 1 year on Neptune.
- Neptune has 14 known moons.

AMAZING FACTS



Mercury, Venus, Earth and Mars are solid as rocks. That's why they are called terrestrial or rocky planets. They are also grouped together as the inner planets. The four planets, Jupiter, Saturn, Uranus, and Neptune are gas giants and are called gassy planets.

Until now it was thought that only Saturn has rings but latest probes have shown that four planets Jupiter, Saturn, Uranus and Neptune have rings. The rings are actually tiny pieces of rock covered with ice.



All planets in our solar system move around the Sun. The time taken by a planet to complete one such trip is that planet's year. Each planet also spins on its axis, turning toward and away from Sun. The time a planet takes to complete one rotation on its axis is the length of the day on that planet. The Earth takes 23 hours 56 minutes 4.0

seconds to complete one turn so our day is of 24 hours duration.

The earth takes 365.24 days to travel once around the Sun. So one year on Earth is of 365 days. Neptune is so far from the Sun that its orbit takes 164.8 years. So Neptune year is 165 Earth years. Its day is 16 hours long. The length of a day on Saturn is 10 hours and the year is 29 Earth years.

TEST YOUR KNOWLEDGE

1. Complete the names of the planets in our solar system.

- | | |
|--------------|--------------|
| a. M... .. | e. M... .. |
| b. E... .. | f. S... .. |
| c. J..... .. | g. U... .. |
| d. V... .. | h. N..... .. |

2. Choose the correct option

Q1. Which is the planet nearest to the Sun?

- a) Earth b) Mars c) Mercury d) Saturn

Q2. Which is the planet farthest from the Sun?

- a) Jupiter b) Mercury c) Neptune d) Uranus

Q3. Name the hottest planet in our solar system.

a) Earth b) Jupiter c) Mercury d) Venus

Q4. Can you name the largest planet in our solar system?

a) Jupiter b) Mars c) Saturn d) Uranus

Q5. Can you name the smallest planet in our solar system?

a) Mercury b) Mars c) Saturn d) Uranus

Q6. Which is the coldest planet in our solar system?

a) Jupiter b) Neptune c) Saturn d) Uranus

Q7. Which one of these planets has a ring around it?

a) Jupiter b) Saturn c) Uranus d) All of the above

Q8. Which planet is also called the Red Planet?

a) Jupiter b) Mercury c) Mars d) Venus

Q9. Arrange the following planets in ascending order of their distance from the Sun.

1. I. Jupiter II. Venus III. Mercury IV. Mars V. Earth

a) I, V, IV, II, III b) III, II, V, IV, I

c) III, II, IV, V, I d) I, IV, V, II, III

Q10. A celestial body in space that orbits around a larger body is called a:

a) Asteroid b) Constellation c) Natural Satellite d) Star