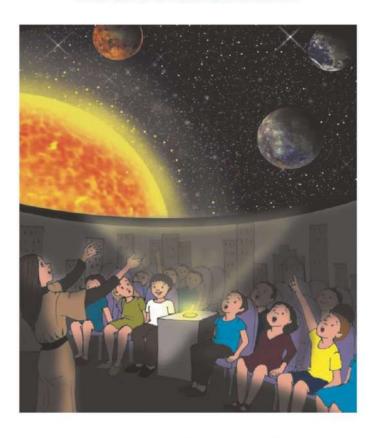
Ecolier Level (Class 3 & 4)

Time Allowed: 90 minutes

ALL QUESTIONS WORTH 4 POINTS





In the round hall of the planetarium, the kids of the 3rd grade are anxiously waiting for the projection to begin. There are 14 boys, and the girls are two more than the boys.

The celestial bodies will appear on the dome of the hall. First came the star of the day – the Sun. The Sun is a star that is over 4 billion years old. On Its surface, the temperature reaches over 6000 degrees Celsius (°C), and inside, the temperature is much higher. Inside the Sun, there are nuclear reactions that produce a large amount of energy. This energy gives heat to all the planets in the Solar System. Without it, there would be no life on Earth. The Sun is estimated to produce energy for another 3 billion years.

The children looked at how the image of the Sun headed towards the line of the horizon and disappeared. Darkness slowly descended into the room. In place of the Sun, thousands of stars appeared on the night sky. Then, the children were shown the planets of the Solar System one at a time, in order of their closeness to the Sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

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Planet Venus

Venus is the brightest planet seen from the

Venus is the hottest place in the Solar

System, after the Sun, with a surface

This planet is different from others because here the Sun rises from the west and sets in

the east. Venus has about the same size as

Earth. A day on Venus is equivalent to

C) a star

temperature of about 500°C.

almost 117 days on Earth.

Earth. It is also called "the morning star".

Planet Mercury



Mercury is the closest planet to the Sun. A day on Mercury lasts the equivalent to 58 days on Earth. Mercury rotates around the Sun in approximately 88 days. This is heavily bombarded meteorites - pieces of celestial bodies. This is why we see on its surface a lot of deep craters.

Here, the temperature varies enormously from day to night. During the day, the temperature reaches 420°C, and at night, it drops to -173°C.

1. What is the Sun?

A) a planet

- **B)** a satellite
- E) an ocean
- 2. The Sun's age is....

D) a continent

A) 4 thousand years

- **B)** over 4 billion years
- C) not more than 4 billion years
- **D)** 4 million years
- E) 4 millennia

- 3. How long will the Sun keep on producing energy?
 - **A)** 8 billion years
- **B)** 4.6 billion years
- **C**) 3 billion years

- **D)** 1.6 billion years
- E) 10 billion years

Ecolier Level (Class 3 & 4)

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4. The Sun's temperature is			
A) 6000° <i>C</i> , both at the surfa C) 600° <i>C</i> inside	nce, as well as inside D) 6000°C at the surface	B) 6000°C inside E) 600°C at the surface	
5. What is a meteorite?			
A) a piece from a celestial bC) a star	oody D) a rock	B) a small planetE) a mountain on Venus	
6. Because of the meteorites b	ombarding it, Mercury has a lo	t of	
	B) crickets E) crystals	C) characters	
7. Planet Venus is unique in t	ne Solar System because:		
A) it is seen from the Earth C) it is uninhabited D) there the Sun E) it has the shortest day			
8. On Planet Mercury, a day lasts around			
A) 696 hoursD) 58 hours	B) 1450 hours E) 1892 hours	C) 1392 hours	
9. Planet Venus is also called			
A) The Super StarD) The Light	B) The ShinyE) The Second Sun	C) The Morning Star	
10. What is the difference in s	urface temperature between th	e Sun and Venus?	
A) 5500° <i>C</i> D) 12° <i>C</i>	B) 2000° <i>C</i> E) 100° <i>C</i>	C) 1000° <i>C</i>	

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11. What is Venus's position from the Sun?

A) first

B) second

C) third

D) fourth

- E) fifth
- **12.** How many children from the 3rd grade have visited the Planetarium?
 - A) 14

B) 16

C) 20

D) 28

E) 30

Planet Earth



Planet Mars



Planet Earth, also called Terra, is the Mars is also called the Red Planet, hours to rotate around the Sun. The Earth minutes, and a year has 684 days. has only one natural satellite, the Moon, and around 1500 artificial satellites used Like Earth, the poles of Mars have ice. to collect and send important data for agriculture, meteorology, telecommunications.

fifth in size. The surface temperature because of the reddish color given by its varies between -50°C and 50°C. It is the rich iron content. Mars has the tallest only inhabited planet in the Solar volcano in our Solar System. A day on System. The Earth takes 365 days and 6 Mars lasts about 24 hours and 30

Planet Jupiter



Planet Saturn



Jupiter is the largest planet in our Solar The planet Saturn is known because of gas. On Its surface there is a formation and ice rotating around it. called "The Great Red Spot", where

System. It's a planet composed mostly of Its rings, consisting of chunks of rock

powerful storms take place. On the surface, This planet needs 29 Earth years to the temperature is about 150°C. Jupiter may make a full rotation around the sun. A be seen with the naked eye, looking as a very day on Saturn lasts 10 hours and 4

Ecolier Level (Class 3 & 4)

Time Allowed: 90 minutes

bright star. Jupiter has tens of natural minutes. satellites; four of these were discovered by Galileo Galilei in 1610. A day on Jupiter Saturn is the farthest planet in the lasts 9 hours and 50 minutes, and a year has 4334 days.

Solar System that can be seen with the naked eye from Earth.

Planet Uranus



Uranus is the third largest planet in the Solar System. It was first observed by astronomer William Herschel on March 12 1781, who initially believed it was a comet.

It can be observed with a telescope or a binocular. Uranus has its own rings, but they are less clear. A day on Uranus lasts approximately 17 hours.

Planet Neptune



initially Neptune was discovered through mathematical calculation, but it was first observed in 1846.

Neptune has the greatest storms. Here, the wind can reach speeds of about 2000 km/hour, being the strongest wind in the Solar System. A year on planet Neptune lasts 165 Earth years, and a day lasts about 16 hours.

- **13.** Planet Earth is unique in the Solar System because:
 - A) it rotates around the Sun
 - **B)** it is round
 - **C)** it is inhabited by humans
 - D) the temperature varies between day and night
 - E) it can be observed on the night sky
- **14.** Which planet has the longest day?
 - A) Uranus

B) Earth

C) Neptune

D) Mercury

- E) Venus
- **15.** The Moon is....
 - **A)** a star in the Solar System
 - C) a meteorite on Mercury
 - E) a natural satellite of Earth

- **B)** a small planet
- D) an artificial satellite of Earth

Ecolier Level (Class 3 & 4)

Time Allowed: 90 minutes

16. The poles of Mars have			
A) oxygenD) oil	B) water E) hydrogen	C) salt	
17. "The Great Red Spot" on Ju	piter is an area with very		
A) hot summersD) much iron	B) powerful storms E) rich vegetation	C) much water	
18. The planet with the shortest	t day is:		
A) UranusD) Neptune	B) Jupiter E) Mercury	C) Earth	
19. How many hours does an E	arth year have?		
A) 24 hoursD) 8766 hours	B) 8760 hours E) 4380 hours	C) 8784 hours	
20. Galileo Galilei discovered:			
A) planet JupiterC) "Great Red Spot"E) all of Jupiter's natural sat			
21. Saturn's rings are made up of materials that are			
A) liquid and gasD) gas	B) solidE) solid and gas	C) liquid	
22. Saturn is the last planet in the	ne Solar System which		
A) was discoveredB) can be observed with theC) can be observed throughD) was studiedE) is lifeless			

Ecolier Level (Class 3 & 4)

Time Allowed: 90 minutes

23. On Neptune, the wind can reach speed of over....

A) 1500 km/h

B) 2500 km/h

C) 3000 km/h

D) 5000 km/h

E) 10000 km/h

24. A year on planet Neptune is about:

A) 25 Martian years

B) 38 Martian years

C) 50 Martian years

D) 88 Martian years

E) 100 Martian years

