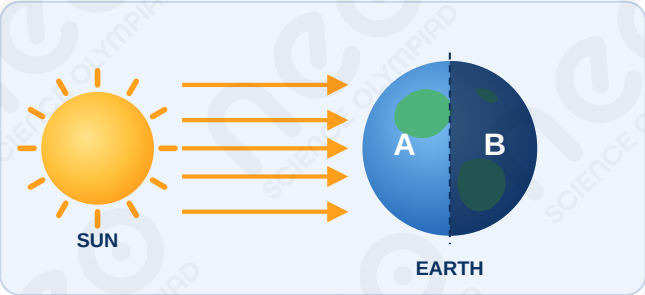
01



The diagram shows sunlight reaching Earth. Which side of Earth is experiencing daytime?

A) Side A
B) Side B
C) Both sides equally
D) Neither side

02

What causes day and night on Earth?

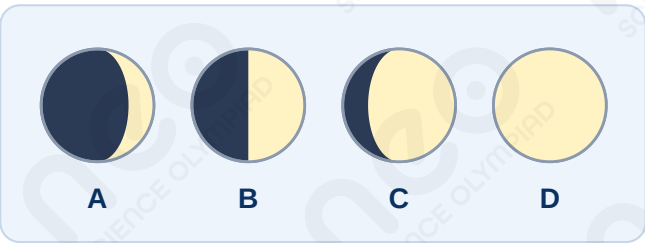
A) The Moon moves around Earth.
B) Earth rotates on its axis.
C) The Sun moves around Earth.
D) Earth moves closer to the Sun.

03

What is the Sun?

A) A very large planet
B) A star that gives off light
C) A giant ball of cold gas
D) A moon that shines at night

04



Which Moon picture shows a full Moon as seen from Earth?

A) Picture A
B) Picture B
C) Picture C
D) Picture D

05

Why does the Moon appear to change shape during a month?

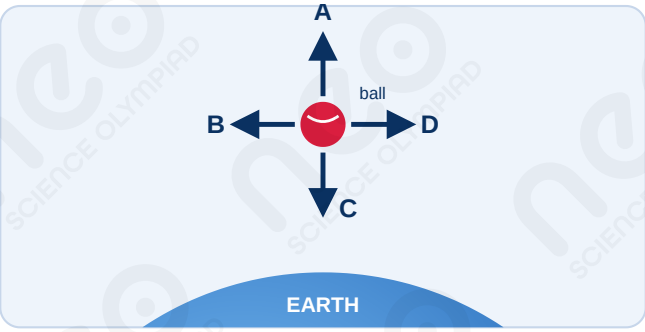
A) We see different portions of its sunlit half.
B) Earth's shadow covers the Moon every night.
C) The Moon changes its actual shape.
D) Clouds permanently cover parts of the Moon.

06

What happens during a solar eclipse?

A) Earth moves between the Sun and Mars.
B) The Sun stops producing light.
C) The Moon disappears behind Jupiter.
D) The Moon passes between Earth and the Sun.

07



In the picture, a ball is dropped near Earth. Which arrow shows the direction gravity pulls it?

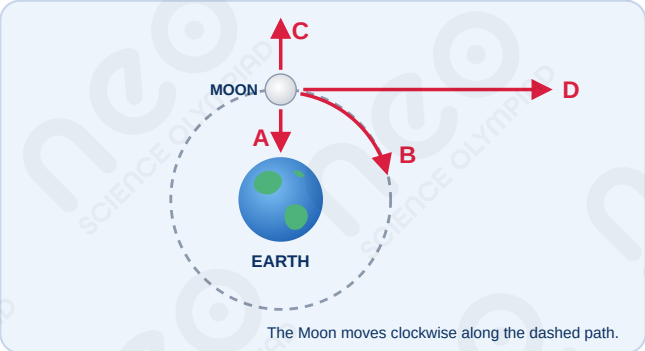
A) Arrow A
B) Arrow B
C) Arrow C
D) Arrow D

08

Which force keeps the Moon moving around Earth?

A) Magnetism from the Sun
B) Wind in space
C) Earth's gravity
D) Light from the stars

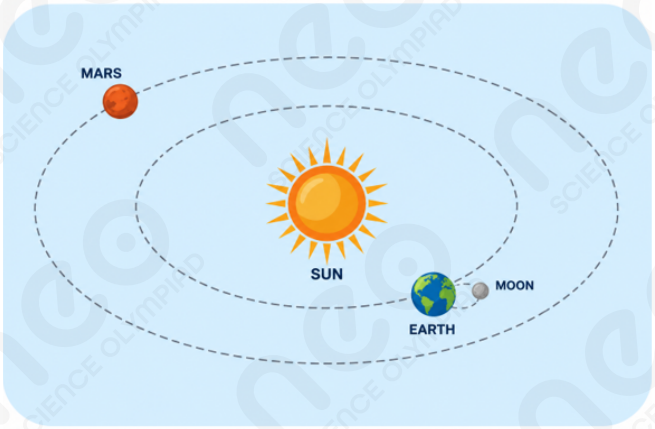
09



The Moon is moving around Earth. If Earth's gravity suddenly disappeared, which path would the Moon follow?

A) Path A – it would fall onto Earth
B) Path B – it would keep circling Earth
C) Path C – it would move straight away from Earth
D) Path D – it would continue in a straight line

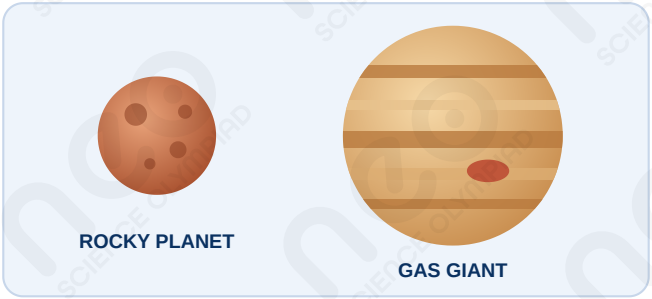
10



Which object is the main source of the gravitational force keeping Earth in orbit?

A) Moon
B) Mars
C) Sun
D) A satellite

11



The image compares a rocky planet and a gas giant. Which statement is correct?

A) Gas giants have solid ground like Earth.
B) Rocky planets have a solid surface.
C) All planets are the same size.
D) Rocky planets are made entirely of gas.

12

Which planet is famous for its large and prominent rings?

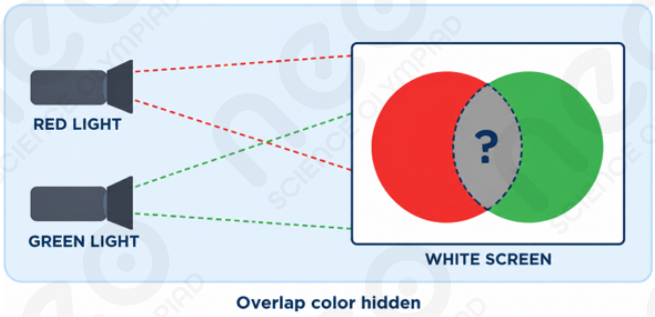
A) Mars
B) Venus
C) Saturn
D) Mercury

13

What is the main purpose of a telescope?

A) To make stars produce more light
B) To collect light from distant objects
C) To send astronauts into space
D) To change the positions of planets

14



Overlap color hidden

Red light and green light shine together on a white screen. What color is produced where they overlap?

A) Yellow
B) Blue
C) Black
D) Purple

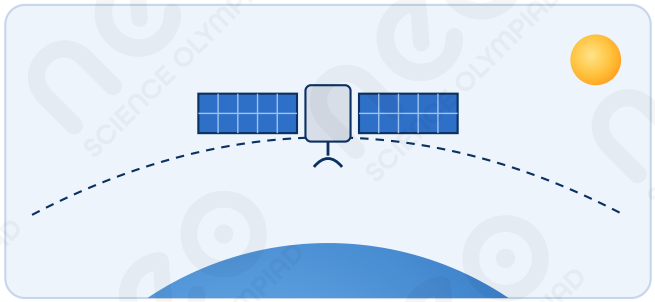
15



Which wave has more crests across the same distance?

A) Wave A
B) Wave B
C) Both are equal
D) Neither wave has peaks

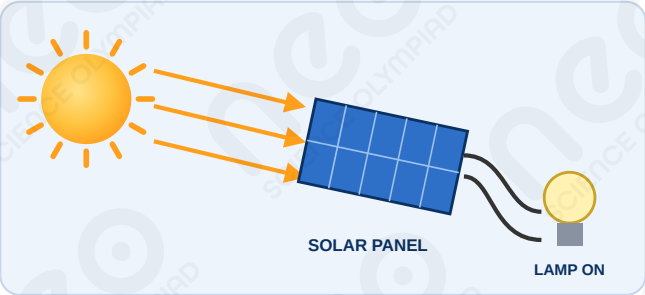
16



Which object uses solar panels to produce electrical power while orbiting Earth?

A) A comet with a long tail
B) A meteor streaking by
C) A star far from Earth
D) An artificial satellite

17



Which energy conversion takes place in the solar panel shown?

A) Sound energy to heat energy
B) Light energy to electrical energy
C) Electrical energy to sound energy
D) Motion energy to light energy

18

Which NASA vehicle is designed to explore the surface of Mars?

A) A submarine
B) A helicopter used on Earth
C) A space telescope
D) A robotic rover

19

Why do astronauts appear to float inside the International Space Station (ISS)?

A) There is no gravity anywhere in space.
B) Their spacesuits make them lighter.
C) They fall around Earth along with the ISS.
D) The Moon's pull cancels Earth's gravity.

20

Why do astronauts wear special spacesuits outside their spacecraft?

A) To protect them and supply oxygen
B) To make themselves invisible
C) To travel faster than light
D) To create gravity around their bodies

Answer Key

1	A
2	B
3	B
4	D
5	A
6	D
7	C
8	C
9	D
10	C
11	B
12	C
13	B
14	A
15	B
16	D
17	B
18	D
19	C
20	A