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Olympiads
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CREST Science Olympiad (CSO) Worksheet *for*

Class 4



Topic

Phases of the Moon and Constellations



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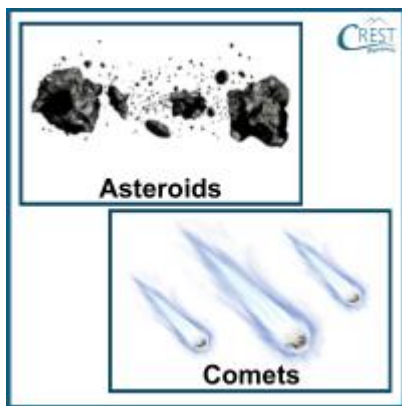
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Worksheet on Phases of the Moon and Constellations

1. What causes shooting stars to appear as bright streaks of light in the sky?
 - a. The reflection of sunlight on the Moon's surface
 - b. The collision of comets
 - c. The burning of rocks or dust in Earth's atmosphere
 - d. The gravitational pull of the earth
2. When the moon is in the first quarter phase, what percentage of its surface is visible from Earth?
 - a. 25%
 - b. 50%
 - c. 75%
 - d. 100%
3. Identify the difference between the celestial bodies shown in the picture.



- a. Asteroids are made of rock and metal, while comets are made of ice and rock.
 - b. Asteroids are found between Jupiter and Saturn, while comets are found beyond Neptune.
 - c. Asteroids have a tail of gas and dust when they approach the Sun, while comets do not.
 - d. Comets are called planetoids and they are larger than asteroids in size.
4. Which of the following is not an application of artificial satellites?
 - a. Communication and broadcasting
 - b. Weather forecasting and monitoring
 - c. Space exploration and research
 - d. Formation of constellations in the sky
 5. Sarah noticed a bright object with a glowing tail streaking across the night sky. What is this phenomenon commonly known as?
 - a. Meteor
 - b. Comet
 - c. Asteroid
 - d. Satellite

Answer Key

1. c - Meteors, often referred to as "shooting stars," are caused by the burning of rocky debris from space as they enter Earth's atmosphere.
2. b - During the first quarter phase of the moon, half of its surface is illuminated by sunlight. This means that 50% of the moon's surface is visible from Earth during this phase.
3. a - Asteroids are rocky and metallic objects that are primarily composed of rocks and metals. On the other hand, comets are made up of a mixture of rock, dust, and ice.
4. d - Artificial satellites do not have any influence on the natural formation or arrangement of constellations in the sky.
5. b - Comets are celestial objects composed of rocky particles coated with frozen ice, which vapourise as they approach the Sun, creating a glowing tail.

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