

Name _____

Comets: Visitors from the Cosmic Ice Realm

Multiple Choice Questions

1. What is the composition of a comet's nucleus?
 - A) Rocks and metals
 - B) Water ice, dust, and volatile compounds
 - C) Helium and hydrogen
 - D) Iron and sulfur

2. What causes a comet's tails to form?
 - A) The heat from the Sun
 - B) Cosmic rays from distant stars
 - C) Collisions with other celestial objects
 - D) Gravitational forces from nearby planets

3. What are the two types of tails that comets exhibit?
 - A) The gas tail and the fire tail
 - B) The water tail and the ice tail
 - C) The ion tail and the dust tail
 - D) The plasma tail and the vapor tail

4. Why have comets often been considered significant throughout history?
 - A) Because they always bring good fortune
 - B) Due to their unpredictable and mysterious nature
 - C) As indicators of major celestial events
 - D) Because they were believed to be alien spaceships

5. Which famous comet returns to the inner solar system approximately every 76 years?
 - A) Comet Encke
 - B) Comet Lovejoy
 - C) Comet Halley
 - D) Comet ISON

