

Name _____

Comets: Mysterious Wanderers of the Night Sky

Multiple Choice Questions

1. What is the main composition of a comet's nucleus?
 - a) Solid rock
 - b) Water ice, carbon dioxide ice, and various other ices
 - c) Iron and nickel
 - d) Hydrogen and helium

2. What happens to a comet's nucleus when it gets closer to the Sun?
 - a) It becomes invisible.
 - b) It releases gas and dust, forming a coma.
 - c) It grows in size.
 - d) It becomes solid rock.

3. What is the role of the solar wind in forming a comet's tail?
 - a) It pushes the tail towards the Sun.
 - b) It creates the coma.
 - c) It blows the coma and dust particles away from the nucleus.
 - d) It causes the nucleus to melt.

4. Where do comets in our solar system originate from?
 - a) The Sun's surface
 - b) The asteroid belt
 - c) The Kuiper Belt and Oort Cloud
 - d) The Earth's atmosphere

5. How have comets contributed to our understanding of the universe?
 - a) They have helped us predict weather patterns.
 - b) They have been used for space travel.
 - c) They have provided clues about the early solar system.
 - d) They have influenced the formation of planets.

