Name _____

Exploring the Cosmic Ingredients: The Composition of Comets

Multiple Choice Questions

1. What is the primary component of a comet's core?

a) Dust and rocky materials

b) Ices, including water and frozen gases

c) Organic compounds

d) Solar wind

2. What happens when comets approach the Sun?

a) They shrink in size.

b) Their ices vaporize, creating a glowing coma and tails.

c) They release more dust than gas.

d) They become dormant.

3. Which of the following is NOT a component of a comet's composition?

a) Organic compounds

b) Solar wind particles

c) Rocky materials

d) Ices, including water and frozen gases

4. What role do comets play in the study of the early solar system?

a) They provide information about modern solar system dynamics.

b) They carry messages from extraterrestrial civilizations.

c) They offer insights into the conditions and materials of the early solar system.

d) They are remnants of ancient supernova explosions.

5. What is outgassing in comets?

a) The process of comets turning into gas giants.

b) The release of gas and dust as comets approach the Sun.

c) A scientific experiment performed on comets.

d) A type of collision between comets and other celestial bodies.

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