Name _____

The Magical Powers of Water: Why is it Called the Universal Solvent?

Multiple Choice Questions

1. Why is water often called the "universal solvent"?

a) Because it can dissolve only salts and sugars.

b) Because of its unique ability to dissolve a wide variety of substances.

c) Because it is the most abundant substance on Earth.

d) Because it has a simple molecular structure.

2. What is the molecular structure of a water molecule?

a) Two oxygen atoms and one hydrogen atom.

b) One oxygen atom and two hydrogen atoms.

c) Two hydrogen atoms and two oxygen atoms.

d) One hydrogen atom and one oxygen atom.

3. What makes water a polar molecule?

a) Its two hydrogen atoms.

b) Its oxygen atom.

c) Its negative charge.

d) Its positive charge.

4. What is a hydration shell?

a) A shell made of ice around a solute particle.

b) A shell of water molecules surrounding a solute particle.

c) A protective layer on the surface of water.

d) A shell that keeps water molecules together.

5. Why is water's role as a universal solvent important in biology?

a) It helps in weathering rocks.

b) It dissolves pollutants in the environment.

c) It aids in transporting nutrients and minerals in living organisms.

d) It forms caves through its dissolving power.

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