

Name _____

The Magic of Water's Polarity: Why It Matters

Short Answer Key

1. A water molecule is polar because of the unequal sharing of electrons between its hydrogen and oxygen atoms.
2. Water's polarity allows it to attract and surround solute particles, breaking them apart and dispersing them in the solution.
3. Hydrogen bonds in water are responsible for its high boiling point and surface tension.
4. Water's polarity is essential for dissolving nutrients, minerals, and gases, making them available for transport in living organisms.
5. Water's polarity helps regulate Earth's climate by moderating temperature changes in the atmosphere and bodies of water.

