Essential Questions

1. Examine the importance of hydrogen bonding.

2. Summarize why many compounds dissolve in water.

3. Compare acids and bases.

4. Describe the bonding properties of carbon atoms.

5. Compare carbohydrates, lipids, proteins, and nucleic acids.

6. Illustrate how bonds break and reform during chemical reactions.

7. Explain why chemical reactions release or absorb energy.

8. Explain the effect of a catalyst on activation energy.

9. Predict how enzymes regulate chemical reactions.

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Adhesion,

Cohesion,

Hydrogen bond,

Solute,

Solution,

Solvent,

Substrate,

pH

Carbohydrate,

Fatty Acid,

Lipid,

Monomer,

Nucleic Acid,

Protein,

Amino Acid,

Polymer

Activation Energy,

Catalyst,

Chemical Reaction,

Endothermic,

Enzyme,

Equilibrium,

Exothermic,

Product,

Reactant