

Concept Review

Section: The Nature of Chemical Reactions

1. **Identify** the reactants and products in the following chemical reaction:
Isooctane and oxygen burn to form carbon dioxide and water.

2. **Explain** where the energy to cook food comes from when a gas stove burns natural gas, CH_4 , and oxygen, O_2 .

3. **Identify** the type of energy that is stored in a molecule's bonds.

4. **Describe** three signs that a chemical reaction has taken place, and give an example of each sign.

5. **Contrast** endothermic and exothermic reactions.

6. **Explain** why an endothermic reaction might cause a drop in temperature.
