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# Chemical energy Study Guide

**Parent Signature (3 % extra credit on test)**

I have gone over this study guide with my student for about 30 minutes.

## Chemical Vs. Physical

1. What is the definition of a chemical property?

*How a substance reacts with other substances. Can only be observed when a new substance is created.*

2. Name 3 chemical properties.

*Flammability, ability to rust, ability to fizz with acid, changes a strange color*

3. What is the definition of a physical property?

*Qualities of a substance that can be directly observed, creating a new substance is not necessary.*

4. Name 3 physical properties.

*Phase, ability to dissolve, mass, density, color, smell, texture*

5. Is the ability to dissolve a chemical or physical property?

*Physical—when something dissolves it does not change the substance, just breaks it into small pieces*

6. What is the difference between a chemical and a physical change?

*A chemical change creates a new substance, it is a chemical reaction. Physical changes don't create a new substance*

7. Give 3 examples of physical changes.

*Breaking something, melting or freezing, dissolving sugar*

8. Give 3 examples of chemical changes.

*Burning, fizzing, rusting, any chemical reaction*

## Chemical Reactions

1. Give 4 signs that can tell whether a chemical reaction has occurred (from your notes).

*Strange color change, strange change of phase, change in energy, change in smell/taste*

2. What is the definition of a reactant? Where do you find reactants in an equation?

*A chemical that makes a reaction happen, reactants are on the left side*

3. What is the definition of a product? Where do you find products in an equation?

*A chemical that is made from the reaction, products are on the right side*

# Chemical Reactions And Energy Study Guide Answers

**Arshad Iqbal**

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