

Physical Science 4 Study Guide

- Physical and Chemical Properties

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

For a physical change, there is no change in chemical composition. What you start out with is the same as what you end up with.

For a chemical change there is a change in chemical composition. What you start out with is different than what you end up with.

2. Which type of property involves a change in the chemical structure?

Chemical property

3. Which type of property is there no change in the chemical structure?

Physical property

4. Which type of property do you end up with something different than what you started with?

Chemical property

5. Which type of property do you end up with the same thing as what you started with?

Physical property

6. What are some examples of physical properties?

Solubility

Boiling Point

Freezing/Melting Point

Viscosity

Electrical Conductivity

Density

7. What are some examples of chemical properties?

Corrosion

Oxidation

Combustion

8. Does the term boiling point refer to a temperature or a phase change?

Temperature

9. Does the composition of a substance change during a phase change?

No.

10. 5.0g of substance X has a volume of 10.0 mL. What is the density of substance X?

$5.0\text{ g} / 10.0\text{ mL} = .5\text{ g/mL}$

11. Is the density of solid substance X the same as liquid substance X?

No.

12. While making Koolaid you add some sugar to some water. In this solution, sugar is the (solute, solvent) and water is the (solute, solvent).

Physical Science 4 Study Guide Answers

IM Harris



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