

## Unit 2 Study Guide: Matter and Energy

### Section 3.1 Properties of Matter

Use each of the terms below just once to complete the passage.

chemical  
density

mass  
properties

physical  
substance

Matter is anything with (1) \_\_\_\_\_ and volume. A (2) \_\_\_\_\_ is a form of matter with a uniform and unchanging composition. Substances have specific, unchanging (3) \_\_\_\_\_ that can be observed. Substances have both physical and chemical properties. (4) \_\_\_\_\_ properties can be observed without changing a substance's chemical composition. Color, hardness, and (5) \_\_\_\_\_ are examples. Other properties cannot be observed without changing the composition of a substance. These are called (6) \_\_\_\_\_ properties. An example is the tendency of iron to form rust when exposed to air.

Label each property as either physical or chemical.

- \_\_\_\_\_ 7. Chemical formula is  $\text{H}_2\text{O}$
- \_\_\_\_\_ 8. Forms green carbonate when exposed to moist air
- \_\_\_\_\_ 9. Remains unchanged when in the presence of nitrogen
- \_\_\_\_\_ 10. Colorless
- \_\_\_\_\_ 11. Solid at normal temperatures and pressures
- \_\_\_\_\_ 12. Ability to combine with another substance
- \_\_\_\_\_ 13. Melting point
- \_\_\_\_\_ 14. Liquid at normal temperatures and pressures
- \_\_\_\_\_ 15. Boiling point is  $100^\circ\text{C}$
- \_\_\_\_\_ 16. Conducts electricity
- \_\_\_\_\_ 17. Density is  $\frac{1\text{g}}{\text{cm}^3}$

# Energy Study Guide Typepad

**Judd E. Hollander**



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