

Bauck's CHEMISTRY Ch. 1 Test Review

This is an optional assignment due the day of the test.

Materials: loose leaf paper, pen and pencil, calculator

Test date: _____

Test value: 200 points

Test format: multiple choice; physical vs. chemical change identification; density problems (show all work and units); “thought questions” (short essays)

Topics:

- 1) **Alloy**—What is it?
- 2) **Chemical change**—What is it? Identify examples. Compare to chemical property. Contrast with physical change. How can you tell when a chemical change has occurred?
- 3) **Chemical formula**—What is it? Be able to count the number of atoms in a given formula such as $\text{Cu}(\text{OH})_2 = 5$ atoms: 1Cu, 2O, 2H. List another example for this review.
- 4) **Chemical property**—What is it? Identify examples.
- 5) **Compound**—What is it? Identify examples. Compare and contrast element and mixture.
- 6) **Density problems**—Be able to solve for density, mass, and volume. The equation $D = M/V$ will be given. Show all work and units. Show a sample solved density problem for this review.
- 7) **Endothermic** vs. **exothermic** reactions – compare and contrast
- 8) **Element**—What is it? Identify examples. Compare and contrast compound and mixture.
- 9) **Hypothesis**—What it is? Can it be proven? How does it fit into an experiment? Contrast with scientific law and theory.
- 10) **Law of Conservation of Energy**—What is it?
- 11) **Law of Conservation of Mass**—What is it? Be able to explain the law in your own words and apply it to a lab situation.
- 12) **Microscopic** vs. **submicroscopic** vs. **macroscopic** – compare and contrast
- 13) **Mixture**—What is it? Identify examples. Compare and contrast element and compound.
- 14) **Physical change**—What is it? Identify examples. Compare to physical property. Contrast with chemical change.
- 15) **Physical property**—What is it? Identify examples. How can you use physical properties to tell the difference between unknown substances?
- 16) **Pure substance**—What is it? Identify examples.
- 17) **Qualitative** vs. **quantitative** measurements – What are they? Compare and contrast them.
- 18) **Scientific law**—What it is? Can it be proven? How does it fit into an experiment? Contrast with hypothesis and theory.
- 19) **Solution**—What is it? Identify **solute** and **solvent**.
- 20) **Theory**—What it is? Can it be proven? How does it fit into an experiment? Contrast with scientific law and hypothesis.