

Unit 1 Measurements

Things to know: scientific method, qualitative/quantitative data, SI measurements (m, L, g), ways to find volume, converting with prefixes, density, accuracy vs. precision, % error, significant figures, scientific notation, atom/element/compound, chemical/physical properties, chemical/physical changes, classification of matter (mixture/pure substance and homogeneous/heterogeneous), periodic table (periods/groups/families, metals/nonmetals/metalloids)

*Items in italics is for honors only

Objective

2.2.2—Analyze the evidence of chemical change.

Problems

Highest Mastery Achieved for 2.2.2 _____
(80% considered mastered)

- List the four indicators of a chemical change:
 - Formation of a precipitate
 - Formation of a gas
 - Change in color
 - Change in energy
- Define precipitate. How can you determine if something is a precipitate or not?
New solid formed during a reaction...is always on the product side (right side)...can determine a precipitate by using the solubility rules (insoluble = precipitate)
- What would happen if a burning splint was exposed to:
 - Oxygen the flame would be brighter and bigger
 - Hydrogen the flame would make a popping sound...sometimes called barking
 - Carbon dioxide the flame would go out
- What would happen if carbon dioxide was bubbled through lime water?
The water would look cloudy
- What piece of safety equipment must be used in all laboratory experiments?
Goggles
- When using a Bunsen burner what precautions should be made?
Long hair and clothes should be pulled back and there should be no flammable materials near by
- Exothermic reaction releases energy, ΔH is *neg* and energy is shown on the *product (right)* side.
- Endothermic reaction absorbs energy, ΔH is *+* and energy is shown on the *reactant (left)* side.
- Label each of the following as a physical or chemical property and give a brief reason
 - Flammability
CP, cannot get substance back/change in color
 - Density
PP, description...doesn't change substance
 - Can neutralize a base
CP, cannot get substance back
 - Boiling Point
PP, phase change...still same substance
- Label each of the following as a physical or chemical change
 - A tire is inflated with air.
PC, doesn't change substance
 - Food is digested in the stomach.
CP, can't get substance back, gas formed
 - Water is added to red soln, it turns pink.
PP, diluted...same substance...no color change
 - Water is heated and changed into steam.
PP, phase change...still same substance

Msl Ss Review 8 Answers

Jianjun Gao



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