

Semester 1 Exam Study Guide KEY

1. The following types of Chemistry mainly study:

- a. inorganic chemistry: chemicals that do not contain carbon
- b. analytical chemistry: the composition/make-up of substances
- c. biochemistry: the relationship between biology and chemistry (ex. Movement of athletes)
- d. organic chemistry: chemicals that contain carbon
- e. physical chemistry: rate of chemical reactions

2. Scientific Method

a. Steps of the Scientific Method

- i. Question/Problem
- ii. Hypothesis
- iii. Experiment
- iv. Analyze Data
- v. Conclusion

b. Types of Variables

- i. Dependent variable: on the y-axis-measured
- ii. Independent variable: on the x-axis- manipulating
- iii. Control: the normal "situation" where nothing is changed
- iv. Constants are conditions that are held constant throughout the experiment

c. Accuracy vs. Precision

- i. Precision : multiple measurements are close together to one another
- ii. Accuracy : measurements are close to the actual value

d. Percent error

- i. Percent error equation = $\frac{\text{obs. value} - \text{accepted} - \text{accepted value}}{\text{accepted}} \times 100\%$

3. Lab Equipment and Safety

a. *Please see lab equipment sheet for pictures and uses

- i. Beaker
- ii. Graduated cylinder
- iii. Erlenmeyer flask
- iv. Flasker
- v. Crucible

b. Lab Safety basic rules

- i. One example, "Do not put anything acid to water"

4. Matter and Measurements

a. Separation of Mixtures

- i. Filtration : separates solid from a liquid based on physical properties
- ii. Distillation : separates a liquid from a liquid based on boiling points

b. Types of Mixtures

- i. Homogeneous mixture has one phase (level) of its components (solution)

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