

Name: _____

Chemistry Unit Exam

Exam is on: _____

You are permitted to write down any notes you wish on both sides of a 3 by 5 index card. Rules for note cards:

- You are responsible to bring your index card to class on the day of the exam.
- You must produce your own card and turn it in after the exam.
- You cannot use or share anyone else's card on the exam.
- You cannot exceed the area of the index card's front and back.

Exam Format

- 40 Multiple-Choice Questions in 3 parts
 - **Part 1:** 8 questions about planning and carrying out investigations (measurement tools and calculating volume and density)
 - **Part 2:** 24 questions about properties and chemical reactions
 - **Part 3:** 8 questions about conservation of mass
- The test will be completed on Schoology in class

Terms (in no particular order)

Acetic Acid
Acid Rain
Alcohol
Aluminum Foil
Calcium Carbonate
Calcium Chloride
Carbon Dioxide
Chemical Equation
Chemical Reaction
Closed System
Coefficient
Copper
Copper Acetate
Copper Chloride
Density

Dissolve
Distillation
Electrolysis
Fat
Freezing Point
Hardness
Hydrogen
Inference
Matter
Mass
Melting Point
Mixture
Observation
Open System
Oxygen

Product
Properties
Reactant
Soap
Sodium Bicarbonate
Sodium Chloride
Sodium Hydroxide
Solubility
Subscript
Substance
Volume
Word Equation
Solute
Solvent
Solution

Ideas to Study (Not an all inclusive list, but a good place to start.)

- Be able to explain which science tools are used for which types of measurements and know their proper metric units.
- Know and describe properties we studied in class.
- How does the amount of a substance affect properties like hardness, density, or melting point?
- Be able to differentiate between properties and non-properties.
- Be able to list and recognize units of measurement for mass, volume, and density.
- How are melting and dissolving different?
- Be able to calculate density.
- Be able to determine if a chemical reaction occurred given a set of observations.
- Be able to determine if a substance is the same or different from another substance.
- Be able to determine the possible products given the reactants in a chemical reaction.
- Be able to determine what is a reactant and product in a chemical reaction.
- Be familiar with the chemical reactions we did during the labs in this unit.
- Know what happens to particles during a phase changes.
- Be able to identify a situation as creating a mixture, phase change, or chemical reaction.
- Know examples of open and closed systems.
- Be able to apply the Law of Conservation of Mass to a chemical equation.
- Be able to explain if mass of the reactants changes during a chemical reaction when you compare it to the products.
- Be able to describe what happens during a distillation.
- How are electrolysis and boiling the same and different?
- Explain the arrangement of the solute's molecules in relation to the solvent's molecules in a solution.
- Be familiar with the reactants and products of all the chemical reactions we have done in class.

Study Materials

- Review all labs
- Review scientific principles
- Review past Exit Slips
- Review Brain Building Broadcasts