Fall Test Preview

Period:_____

and Study Index

IPC Chemistry Review

What to do:

- Find the worksheet or worksheets that contain the terms or information.
 Study the information and terms to be ready for the test.

Worksheets and study helps can be found at: www.aisd.net/smurray		
Chapter 16—		
Worksheet	Process or Skill	
	Know definition of Matter.	
	Be able to give examples of and tell difference between: Mixtures vs. substances (non-mixtures); Homogenous vs. heterogeneous mixtures; Elements vs. Compounds.	
	Be able to do metric conversions. Know the different basic units: meters; liters; grams. Know the prefixes: Kilo-, Hecto-, Deka-, Basic Unit, Deci-, Centi-, Milli Know approximately how big the common metric units are.	
	Know the four states of matter: Solid; Liquid; Gas; Plasma.	
	Of the three most common states (Solid; Liquid; Gas) know the properties of each: shape; volume; compressibility; speed of molecules; distance between molecules.	
	Know the names of the temperatures at which a substance changes state: freezing point, etc.	
	Be able to list and APPLY the 6 major steps of the Scientific Method.	
	Be able to calculate volume with the displacement method.	
Chapter 17—		
Worksheet	Process or Skill	
	Know what density is and how to calculate density; know what is denser liquids or solids and why. Be able to draw a density column: know how density affects whether something sinks or floats. Know the density of water and be able to recognize it; know that water is denser than ice (one exception). Know and understand these words: Hardness; Elasticity; Brittleness; Malleability; Tensile Strength; Viscosity.	
	Know about buoyancy and Archimedes' Principle; know how to figure out whether an object will sink or float and how much cargo it can carry.	
Chapter 18—		
Worksheet	Process or Skill	
	Know the structure of the atom: the subatomic particles; where they are; what their charges are.	
	Know these words: element; isotope; nucleus; atomic number; mass number; molecule; compound; proton; neutron electron; atom.	
	Know about charges repelling and attracting, what electron orbits electrons fill up first, and how the nucleus stays together.	
	Know the atomic scientists and their contributions to our atomic theory.	
	Be able to find this information from the periodic table: element name; symbol; atomic mass; atomic #; group and period.	
	Be able to find the number of valence electrons and the molecular mass of a molecule.	

Name:	IPC Chemistry Review
	IPC Chemistry Review
Chapter 19—	
Worksheet	Process or Skill
	Be able to tell metals from non-metals.
	Be able to figure out if an atom is an ion, give ion notation; from ion notation be able to give the number of electrons. Be able to tell the type of compounds.
	Be able to use dot diagrams to show individual atoms and covalent compounds.
	Be able to name compounds.
	Be able to balance ionic compounds.
	Know these terms and able to apply them: valence electrons; cation; anion; octet rule; neutral atom; ion.
Chapters 20 a	nd 21—
Worksheet	Process or Skill
	Know the differences between physical and chemical changes and be able to prove it with evidence.
	Be able to tell the number of atoms in a chemical reaction.
	Be able to tell the tell the reactants from the products in a chemical reaction.
	Be able to classify the different reactions (addition; decomposition; etc).
	Be able to balance chemical equations.
	Know what these are: Law of Conservation of Mass; Principle of Conservation of Atoms. Know these words: endothermic; exothermic.
	Titlow tilede words. Chaotherinie, exotherinie.
Chapters 22 th	nru 25 —
Worksheet	Process or Skill
	Know the differences between fission and fusion; their waste products.
	Know the differences between the three kinds of radiation: alpha; beta; and gamma.
	Know why atoms decay.
	Know these words: carbon dating; half-life; chain reaction.
	Be able to do a half-life calculation.
	Know what these are: solution; solute; solvent; dissolve; soluble; insoluble; saturated; unsaturated; supersaturated; colloid; suspension.
	Know why water is polar and why we call it the "nearly" universal solvent.
	Know what four ways change dissolving rate.
	Know the differences between acids and bases and be able to recognize them in chemical formulas.
	Know what pH is and what that means for acids and bases.
	Know what neutralization is and what products it makes.