

Physical Science: Midterm Study Guide Modules 1-7

Module 1:

What is physical science?
What is technology?
What is the scientific method?
Scientific Theory vs. Law
Relationships shown on graphs (inverse, direct, none)

Quantitative observation
Qualitative observation
Hypothesis
Variable
Scientific Theory
Inference

metric system units for length, mass, volume

Module 2:

Solution
Solute
Solvent
Solid
Liquid
Gas
Density
Diffusion

Differences between pure substances, compound, homogeneous mixtures, heterogeneous mixtures
What is matter?
Phases of matter: solid, liquid, gas, plasma phase-changes and their names (see pg 95)
Properties of matter
How can you tell if a physical vs. chemical change took place?

Module 3:

Law of conservation of mass
Law of constant composition
Atomic number
Mass number
Isotopes
Cations
Anions/electrolyte

History of the atom: Democritus, Aristotle, Dalton's Atomic Theory, J.J. Thomson, Rutherford, Chadwick
The atom - subatomic particles and their charges, atomic mass & number, how to figure out all the numbers given some information, isotopes and how to know how many neutrons there are given the name or how to name it given the number of protons
Bohr's electron model with energy levels, table 2.2 pg 97
Periodic table- how it's organized

Physical Science Apologia Study Guide

Liyong Dong



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