Cheatography

Physical Science Intro Cheat Sheet

by thomas711 via cheatography.com/27853/cs/9652/

Science Skills

- Observing
- Measuring
- Organizing
- Classifying
- Hypothesizing
- Predicting
- Analyzing
- Inferring
- Modeling

Specialized Fields in Science

- Biochemistry
  - Biology+chemistry
- Organic Chemistry
  - Most substances that contain carbon
- Inorganic Chemistry
  - Most substances that don't contain carbon
- Mechanics
  - Study of Motion of Objects
- Thermodynamics
  - Heat + its properties
- Nuclear Physics
  - Processes in the nucleus of an atom
- Astrophysics
  - Celestial bodies
- Acoustics
  - Sound + its properties
- Optics
  - Light + its properties

Physical Science

Formulas

- Area (cm^2)
  - L x W
- Volume (cm^3)
  - L x W x H or B x H
- Volume(Irregular shape) (cm^3)
  - V(displaced liquid, mL)= V(object, cm^3)
- Density
  - g / cm^3

Measurements

- Volume
  - Amount of space in an object
- Density
  - Arrangement of particles in a substance, how closely packed they are in a specific amount of space. Heavy/Light have to do with density
- Mass
  - Amount of matter in an object
- Temperature
  - Average amount of kinetic energy of the particles in a substance, Hot/Cold

Metric / SI

- English system
  - Used in USA
- S.I - International System of Units
  - Standard used worldwide
- Metric Staircase
  - K-h-da-UNIT-d-c-m

Scientific Experiments

Scientific Method

- State the Problem
  - Ask a question about the problem to learn about/solve
- Background Research
  - Textbooks, internet, scientific journals, encyclopedias, newspapers
- Formulate a Hypothesis
  - Suggest a solution to the problem
- Design an experiment
  - Organized process designed to test hypothesis. List all materials and procedure in correct step-by-step order
- Collect + Organize Data
  - Detailed charts, graphs, models, drawings
- Analyze Data
  - Study data carefully
- Draw a Conclusion
  - Is the hypothesis right or wrong? Restate it. Based on analysis of data.

Physical Science

Study of non-living things. Matter+Energy

Chemistry

Matter + its changes

Physics

Study of all forms of energy, changes among forms

Specialist

Person studying a specific field of a subject

Specialization

Work in one part of a subject

Constant

Factor that remains unchanged

Independent Variable

You control; adjustable

Dependent Variable

Stimulus that we don't change but is changed by other variables

Control

Part of experiment that remains unchanged to compare the results

Scientific Method

Series of steps used to investigate a scientific question; steps can be skipped or repeated

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