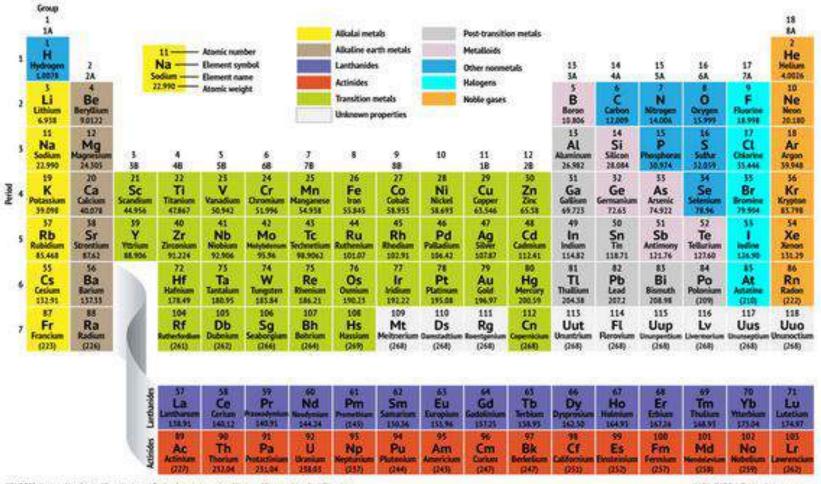
Elements



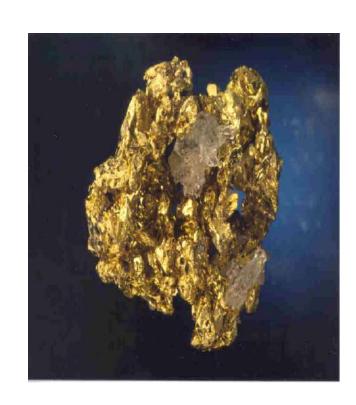
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Periodic Table of the Elements



I. Elements, the Simplest Substances

- A. An **element** is a pure substance that cannot be separated into simpler substances by physical or chemical means.
- **B.** Only One Type of Particle: A pure substance is a substance in which there is only one type of particle (atoms).
 - 1. Ex. Every atom in a 5 g nugget of gold is like every other atom of gold.



II. Properties of Elements

- A. Each element has its own characteristic properties that don't depend on the amount of the element present.
 - 1. Ex. Physical properties such as boiling point and density.
 - 2. Ex. Chemical properties such as reactivity with acid.

III. Classifying Elements by Their Properties

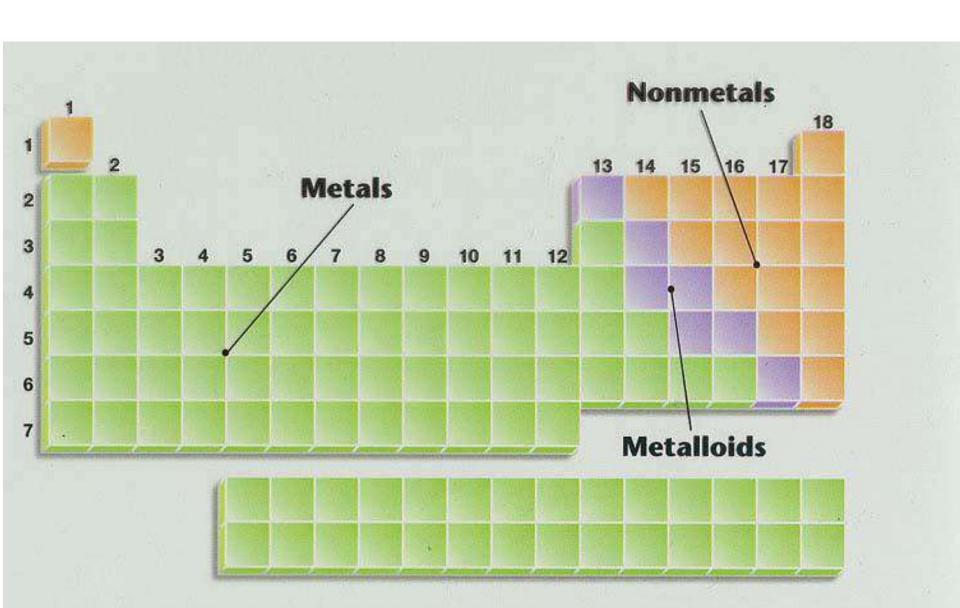
A. Categories of Elements

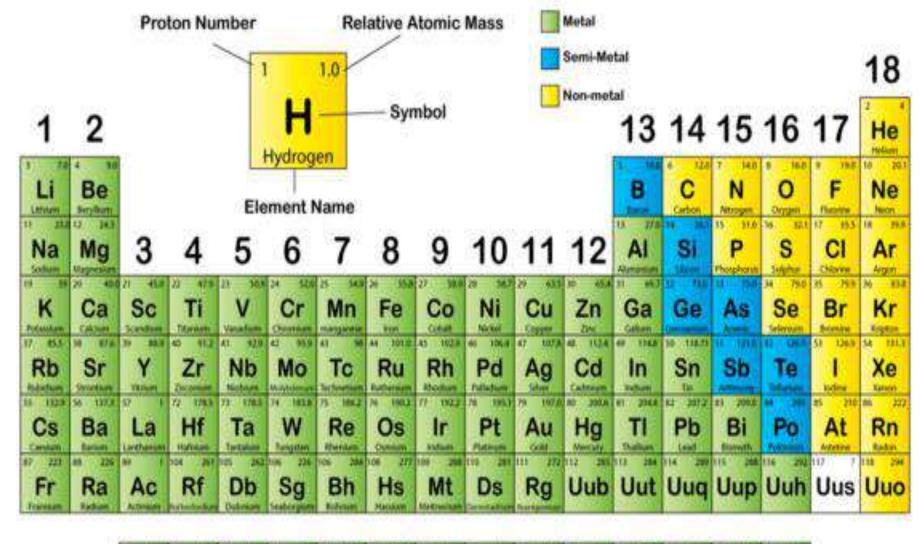
- 1. Metal: An element that is shiny and conducts heat and electricity well.
- Nonmetal: An element that is dull and conducts heat and electricity poorly.
- 3. Metalloid: An element that has properties of both metals and nonmetals.





The Periodic Table





Lanthanide

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