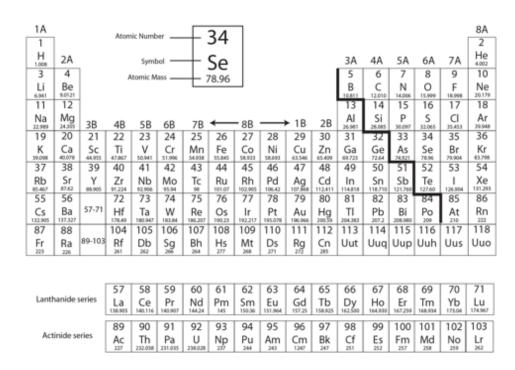


6.6A Metals, Non-metals, Metalloids

Picture Vocabulary

Periodic Table of Elements

Periodic Table of Elements



A table in which all the known elements are arranged by properties and are represented by one or two letter chemical symbols.





Physical Property





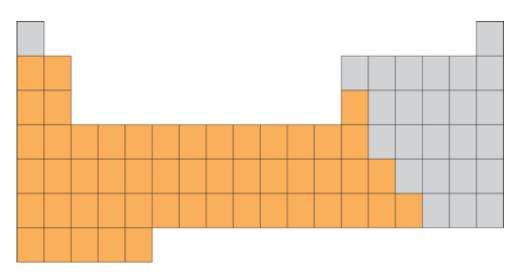
Characteristics that can be observed or measured without changing the substance, for example color, melting point, and conductivity.





Metal



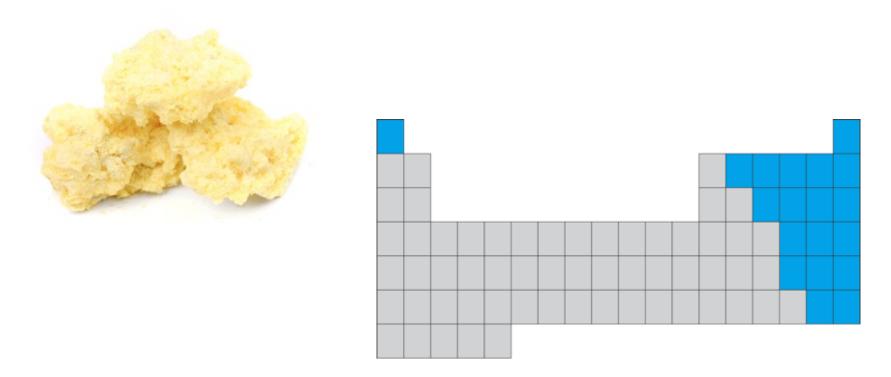


Most elements are metals; they are typically solid, shiny, malleable, and good conductors of heat and electricity.





Non-metal



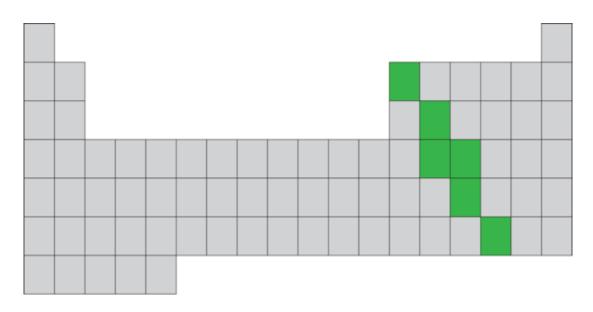
Elements typically not shiny, usually a gas or brittle solid, not malleable, and poor conductors of heat and electricity.





Metalloids





Elements that have properties of both metals and non-metals; sometimes referred to as semiconductors.





Luster

Metallic



Non-metallic

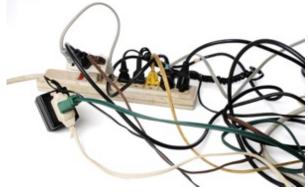


A physical property, the way the surface of a substance shines or reflects light, most general classification between metallic (shiny) and non-metallic (dull or glassy).

Conductivity







A physical property, the ability or power to easily transfer heat, electricity, or sound.





Malleability



A physical property, able to be shaped or formed into thin sheets by hammering or pressure.





Brittle



A physical property, tendency to break, snap, or crack without first bending or changing shape as a result of application of little force, an example is glass that shatters easily.





Insulator



A substance that resists electric current, or a material that resists the flow of heat.





Conductor



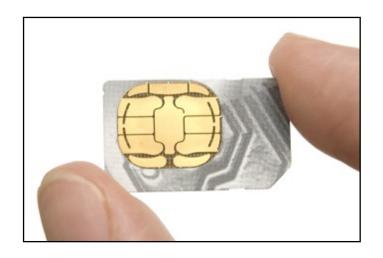


A substance that allows the flow of electric charge or transfers thermal energy through matter.





Semiconductor

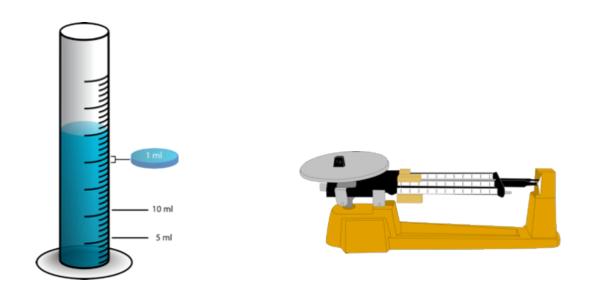


A substance that shows the property of electrical conductivity between that of a conductor and an insulator, the foundation of modern electronics.





Matter



Has mass and takes up space. Matter occurs as elements, compounds, and mixtures.





Classify/Classification

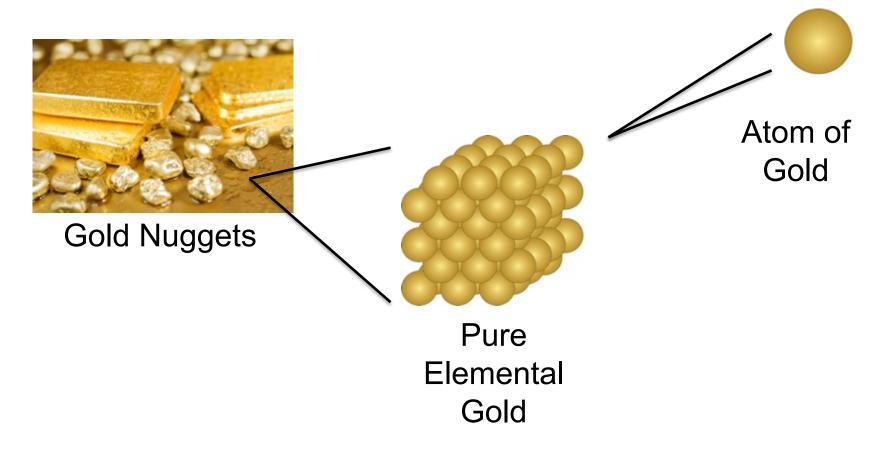


Sort or group together based on shared characteristics, physical properties, or chemical properties.





Element



A pure substance composed of the same type of atom throughout.



