Vocabulary

Use the vocabulary words and definitions below as a reference for this unit.

alchemists	a group of people who searched for a way to turn ordinary metals into gold
atom	the smallest unit of an element that is still that element; the basic building block of matter
atomic mass unit (amu)	a unit of mass equal to the mass of a proton or a neutron; $\frac{1}{12}$ of the mass of a carbon atom
atomic number	a number used to identify an element and represent its placement in the periodic table; identifies the number of protons in the nucleus of an atom
atomic mass	the mass of protons and neutrons found in the nucleus of an atom
combustion	the process of burning a substance
electron	the negatively charged particle of an atom; the electron moves around the center of the atom (nucleus)
element	a substance that cannot be broken down into a simpler form by ordinary chemical means

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energy level	most likely location where the electron can be found around the center of the atom; any of the possible energies an electron may have in an atom
group	elements arranged in a vertical column on the periodic table representing similarities in properties
mass	the amount of matter in a substance
matter	anything that has both mass and volume
metal	a substance that has a specific luster, is usually a good conductor of heat and electricity, and can be pounded or drawn into various shapes
neutron	the neutral particle found in the nucleus of an atom; a neutron has no charge
nonmetal	an element that does not have the properties of a metal
nucleus	the center region of an atom around which the electron(s) move
period	arrangement of elements into horizontal rows on the periodic table

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proton the positively charged particle in the nucleus of an atom

rare not common or usual; hard to find

substance any material or matter

theory an explanation that has been tested by repeated observations

valence electrons the electrons in an atom's outermost energy level that are involved in the forming of bonds