

## Atomic structure/bonding and the periodic table vocabulary review 2014

Name: \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

atoms	covalent bond
subatomic particles	proton —
nucleus	elements
ion	Periodic Table of Elements
neutron	metals
atomic mass	atomic number
electron	chemical bond
noble gases	compounds
Democritus	ionic bonds
Dmitri Mendeleev	halogens

- \_\_\_\_\_ Pure substances that are made up of atoms that have the same number of protons . Everything in the universe is made of some combination of these.
- \_\_\_\_\_ The average mass of an atom of an element. This number found by adding the number of protons and neutrons in an atom of that element.
- \_\_\_\_\_ The negatively charged particles that are found in a “cloud” around the nucleus of every atom.
- \_\_\_\_\_ This number is equal to the number of protons in an atom.
- \_\_\_\_\_ The scientific chart that contains an arrangement of all known elements in order of the atomic number.
- \_\_\_\_\_ Substances formed by the joining of elements through chemical bonding.
- \_\_\_\_\_ A Greek philosopher who theorized that all matter could be reduced to particles that could not be divided, which he described as “atomos.”
- \_\_\_\_\_ A positively charged subatomic particle located in the nucleus
- \_\_\_\_\_ The general term for a connection between atoms that occurs when electrons are **shared or transferred**.
- \_\_\_\_\_ The major group of elements is found on the left hand side of the periodic table.
- \_\_\_\_\_ A general term for electrons, protons and neutrons.
- \_\_\_\_\_ A charged atom that has lost or gained one or more electrons
- \_\_\_\_\_ The center of every atom, containing positively charged protons and neutrally charged neutrons.
- \_\_\_\_\_ The smallest particles of an element that make up matter, consisting of a nucleus containing protons and neutrons surrounded by a cloud of electrons.
- \_\_\_\_\_ A neutral particle located in the nucleus of an atom with a mass of 1amu
- \_\_\_\_\_ The specific type of chemical interaction in which atoms are held together by **shared** electrons.
- \_\_\_\_\_ The specific type of chemical interaction in which atoms lose or gain electrons, creating either negative or positive ions that are then attracted to one another.
- \_\_\_\_\_ the un-reactive elements found in the far right column of the periodic table
- \_\_\_\_\_ the name of the group of elements that has seven valence electrons and includes chlorine and fluorine
- \_\_\_\_\_ The Russian scientist who first started to put together the periodic table

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