

Earth Science Review Sheet #2

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Be able to use the Periodic Table to identify if it is a metal, nonmetal, or metalloid
Know the major characteristics of the groups in the periodic table

Alkali Metal- First group in the periodic table

Alkaline Earth Metal- Second group

Transition Metals- All of the metals in the middle (D block)

Halogens- Group 17 in the table

Noble Gases- Group 18

What is so special about hydrogen- It is on the opposite side of the other gases.
Because it is a non-metal but has a charge of plus one.

<https://www.khanacademy.org/science/chemistry/periodic-table/copy-of-periodic-table-of-elements>

Physical Science Chapter 13 pages 328-341.

Chemical Bonding- The joining of atoms to form new substances.

Chemical Bond- A force of attraction that holds two atoms together.

Ionic Bond- A force of attraction between positively charged ions.

Ions- Atoms with extra or missing electrons.

Crystal lattice- ions that make up an ionic compound are bonded in a repeating three dimensional pattern.

Covalent Bond- Electrons are shared between atoms.

Molecule- Neutral group of atoms held together by covalent bonds.

Metallic Bond- A force of attraction between a positively charged metal ion and the electrons in a metal.

<https://www.khanacademy.org/science/chemistry/chemical-bonds>

Physical Science Chapter 4 pages 82-99.

Pure Substance- A substance where there is only one type of particle.

Metal- Elements that are shiny and are good conductors.

Nonmetal- Elements that are not shiny and are poor conductors.

Metalloid- Elements that are semiconductors. Properties of metals and nonmetals.

Compound- Pure substance that is composed of two or more elements that are chemically combined.