

Families of the Periodic Table
Quiz Study Guide

Name _____

Vocabulary Words:

- Element- chemical substance composed of only one kind of atom - Examples + non-examples
group of
- Family- elements in the Periodic Table that share similar properties
- Atomic number- the number of protons in the nucleus of an atom
- Atomic mass- the mass of the protons, neutrons and electrons of an atom
- Reactivity- how likely an atom is to bond with another, based on its valence electrons

Na, Cl, O₂
Examples + non-examples
NaCl, H₂O

Concepts to know:

1. How is the Periodic Table of Elements organized?

* In order of atomic number
 - Groups
 - Periods

2. What are periods? What are groups?

- Periods are rows
 - Groups are columns - same number of electrons in outer shells

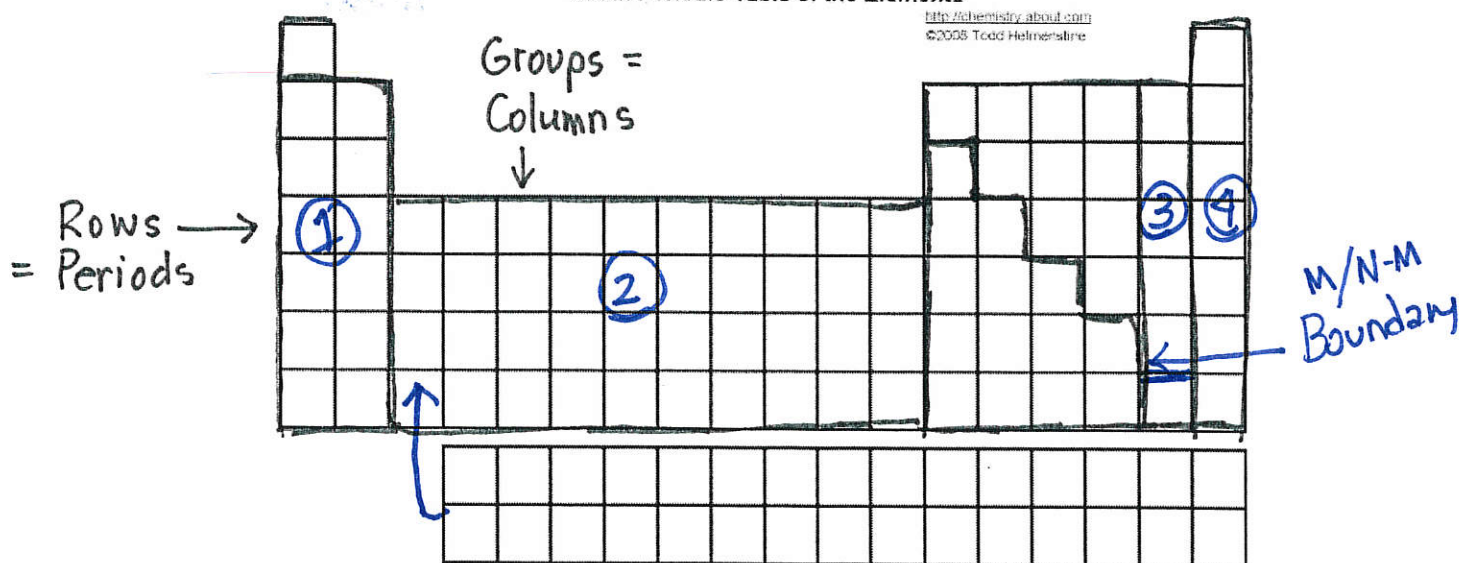
3. What are families of elements?

Groups of elements that share similar physical and chemical properties
 Ex. Alkali metals - highly reactive, soft, silvery-white

4. Name the 4 basic families shown in class and locate them on the Periodic Table.

- ① Highly Reactive Metals
- ② Less Reactive Metals
- ③ Highly Reactive Non-metals
- ④ Non-reactive Non-metals

Blank Periodic Table of the Elements



5. Be able to predict some of the characteristics of an element based on its location in the Periodic Table. For example:

a. Lithium: ^{1st} Highly Reactive, 1e⁻ in outer shell; metal

b. Neon Non-reactive, non-metal, full outer shell

c. Fluorine Highly reactive, non-metal, 7e⁻ in outer shell

6. Be able to identify the information shown in an element's "square" on the Periodic Table.

