



What is the name you need to memorize for

Group 1 \_\_\_\_\_ Group 2 \_\_\_\_\_

Group 17 \_\_\_\_\_ Group 18 \_\_\_\_\_

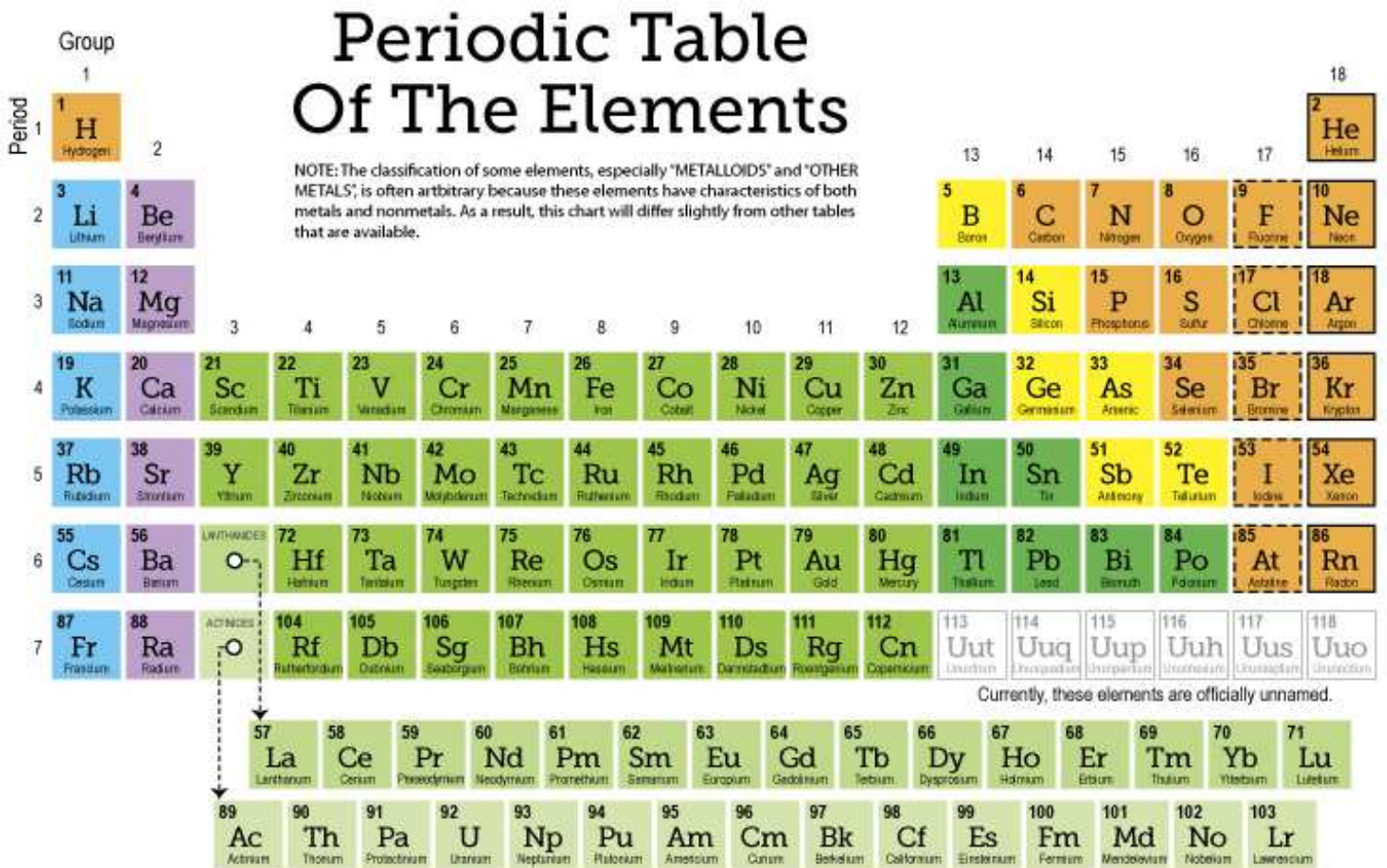
Groups 3-12 + the triangle of metals from Al - Tl - Po \_\_\_\_\_

The 2 long lines of elements at the bottom that BELONG IN group 3 \_\_\_\_\_

List the 7 metalloids symbols. What is the can of DOG FOOD on my desk there to remind you about? \_\_\_\_\_

Define the term metalloid \_\_\_\_\_

Why is H not attached to group 1 in your reference table?



1. Define Isotope: \_\_\_\_\_

The accepted values for atomic mass and abundance for the naturally occurring isotopes of silicon are below.

| Isotope | Natural Abundance |
|---------|-------------------|
| Si-28   | 92.22%            |
| Si-29   | 4.69%             |
| Si-30   | 3.09%             |

2. How many neutrons in an atom of Si-29.
3. How many electrons in Si-30.
4. How many electrons in Si-28.
5. Calculate the average atomic mass for silicon (SF count).

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What can be said about:

6. The total number of electrons in every isotope of any atom?
7. The total number of protons in every isotope of any atom?
8. The total number of neutrons in every isotope of any atom?
9. If the mass is different among various isotopes of any atom, then why are the isotope's chemical properties the same?
10. Make a chart showing the 3 subatomic particles in an atom. Indicate their MASS, CHARGE, and their LOCATION in the atom.