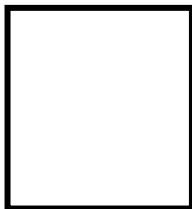


Periodic Table Scavenger Hunt



Section 1 Directions

Today's activity will allow you to explore and learn how to use the periodic table. You will be given a blank periodic table. Attach it to two pages, facing each other, in your journal. Using your chemistry book (and other sources like the chromebook), answer the following by writing directly on the periodic table diagram.

- Columns on the periodic table have group numbers (i.e. column one is group one, column two is group two, etc). Sometimes the column has a recognized family name. Locate and label the top of the appropriate column(s) with the following names: alkali metals, alkaline earth metals, halogens, noble gases, and transition metals.
- Some of the elements on the periodic table are considered metals, non-metals, or metalloids (or sometimes called the "semimetals"). Choose a color or symbol to represent each of these (include a key). Finally, fill in this information on your blank periodic table.
- Many elements are solids, some are gases, and a very small number are liquids at room temperature. Decide on a way to communicate the phase of matter an element would be at room temperature (ex. colors, symbols, outlines, etc.).
- Define the following terms:
 - metal
 - nonmetal
 - metalloid (semimetal)
 - noble gas
 - the *periods* on a periodic table
- Pick an element to draw the atomic number, atomic mass, element name and symbol, plus it's ionic charge in a square about this big → 

Section 2 Directions

Answer each question in your journal. Copy the question and boxes. To answer the question, fill in the box with the correct element symbol.

- Find at least 3 elements named after countries
- Find at least 3 elements named after scientists (and name the scientist)
- Find 1 element named after a state and one named after a continent
- Find 3 elements named after planets
- Find at least 5 elements whose symbols do not match their names
- What is the only letter not appearing on the periodic table as a symbol or part of the symbol?
- Find an element named after one of the avengers.
- Find the element that makes plumbing pipes. Is it a metal, nonmetal or metalloid?
- Find the element that makes glowing signs, what special group is it in?
- Find the element that makes milk good for your health. Is it a metal, nonmetal or metalloid?
- Without repeating the elements you found above, answer the following questions:
 - Find three elements in the same family
 - Find three elements in the same period

Meet the Elements Song

Name _____

Date _____ Block _____

Directions: Fill in as many answers as you can as you listen to the song. You may write the symbols or the full element's name, unless otherwise directed. The questions are in order with the song. Be careful; they go fast 😊

1. What is the symbol for iron? _____
2. What is the symbol for oxygen? _____
3. What is the symbol for carbon? _____
4. What elements combine to make sand? _____
5. What is the symbol for phosphorus? _____
6. What elements combine to make glass and concrete? _____
7. What elements combine to make sugar? _____
8. What is the symbol for aluminum? _____
9. What elements combine to make propane? _____
10. What is the symbol for mercury? _____
11. What four elements are in all living things? _____
12. What elements combine to make water? _____
13. What is the symbol for gold? _____
14. What elements combine to make salt? _____
15. What is the symbol for silver? _____
16. What elements combine to make chalk? _____
17. What is the symbol for tungsten? _____
18. Why do you think certain words were underlined in the questions?
