Unit 4 Review

1. Sketch the periodic table and label the metals, metalloids, and nonmetals.
2. What is each horizontal column of elements in the periodic table called?

What is each vertical column of elements in the periodic table called?

1. Know the trends for electronegativity/ionization energy on the periodic table.
2. Know the trends for atomic/ionic radii on the periodic table.
3. Know what each scientist contributed to the periodic table:

Louis Pasteur

Henry Moseley

John Dalton

Dmitri Mendeleev

1. How is the modern periodic table arranged?

Answer each statement with the symbol for the element described. Put N/A if the statement describes no element or more than one element.

1. # of protons = 23 \_\_\_\_\_\_\_\_\_\_\_\_\_
2. period 6, alkaline earth metal \_\_\_\_\_\_\_\_\_\_\_\_\_
3. group 13, period 5 \_\_\_\_\_\_\_\_\_\_\_\_\_
4. halogen, period 6 \_\_\_\_\_\_\_\_\_\_\_\_\_
5. noble gas, period 1 \_\_\_\_\_\_\_\_\_\_\_\_\_
6. period 5, 5 valence e- \_\_\_\_\_\_\_\_\_\_\_\_\_
7. metalloid, period 3 \_\_\_\_\_\_\_\_\_\_\_\_\_
8. oxygen group, period 6 \_\_\_\_\_\_\_\_\_\_\_\_\_

Fill in the correct information for each element listed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Element | Family Name | Electron Configuration | Oxidation # | Metal, Nonmetal, or Metalloid |
| Sc |  |  |  |  |
| Na |  |  |  |  |
| Au |  |  |  |  |
| Br |  |  |  |  |
| Rn |  |  |  |  |