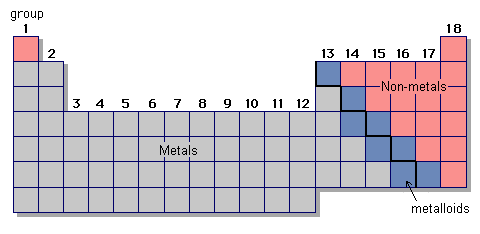
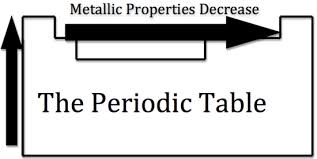
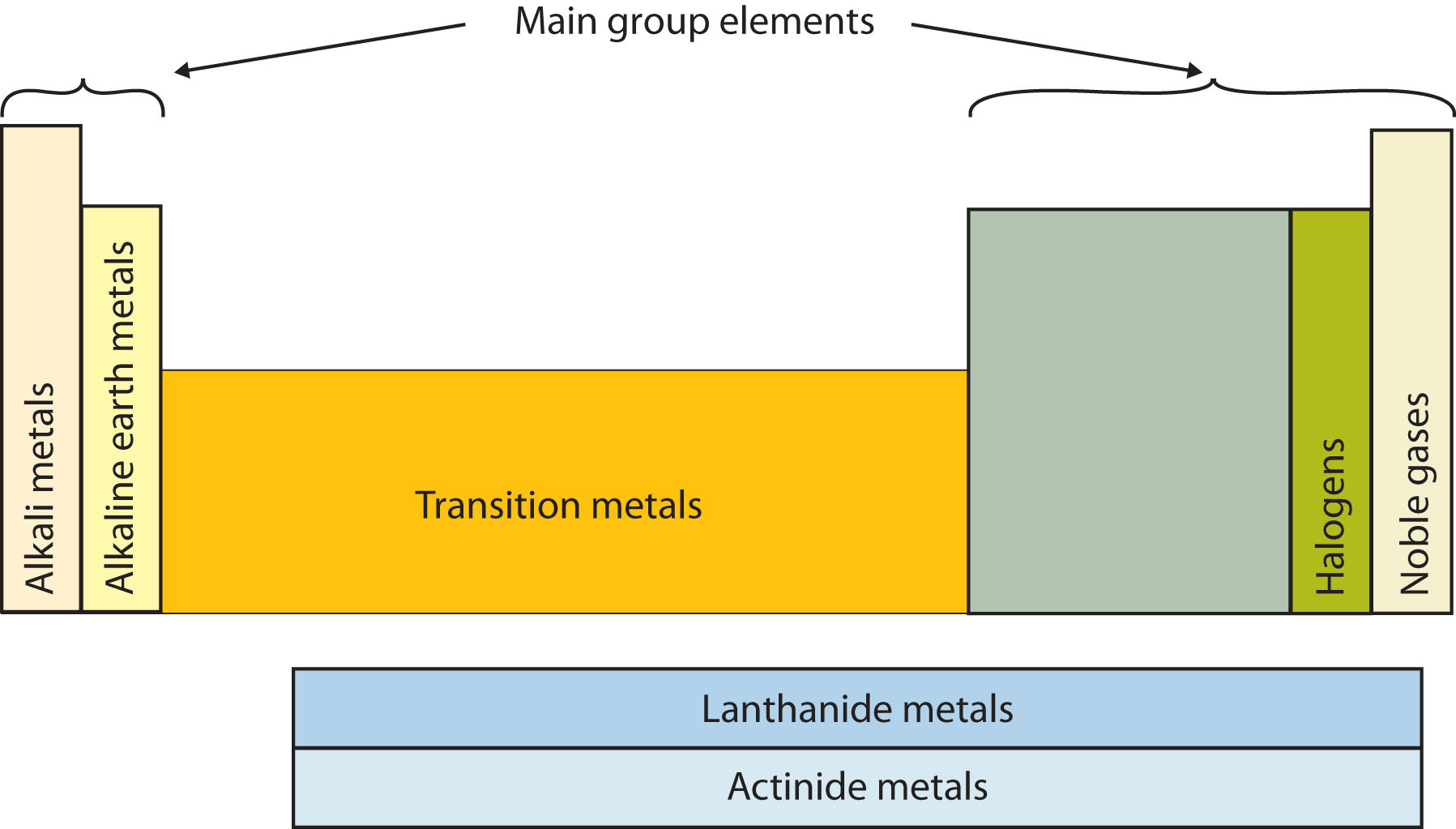
**Elements and the Periodic Table**

1. **Elements**
   1. Made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Classes of Elements on the Periodic Table
   1. **Metals**
      1. **Physical Properties**
         1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heat and electricity
         2. Shiny
         3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
         4. Most metals are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at room temperature
      2. **Chemical Properties**
         1. Water causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
         2. Tend to \_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
      3. Found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side of the periodic table
      4. Examples:
   2. **Non-metals**
      1. **Physical Properties**
         1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heat and electricity
         2. Solids are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_
         3. Many are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      2. **Chemical Properties**
         1. Tend to \_\_\_\_\_\_\_\_\_ electrons
      3. Found on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side of the periodic table
      4. Examples:
   3. **Metalloids**
      1. Physical Properties
         1. Properties of both \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
         2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: Conduct heat and electricity better than non-metals, but not as well as metals
         3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
      2. **Chemical Properties**
         1. Can \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
      3. Found along the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the periodic table
      4. Examples:
3. Groups/Families **(\* = know this group/family)**
   * + 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
          1. Has \_\_\_\_ electron
          2. Very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas
       2. Group 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ metals
          2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electron
          3. Very reactive with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
       3. Group 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ metals
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * + 1. Group 3-12: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heat and electricity
          2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
          3. Electrons vary
       2. Group 13: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
       3. Group 14: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
       4. Group 15: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
       5. Group 16: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Family
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electrons
       6. Group 17: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
          1. Most are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
          2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ electron or \_\_\_\_\_\_\_\_\_\_\_\_\_
          3. Very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
          4. React with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
       7. Group 18: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
          1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (inert)
          2. Does not \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_ electrons
          3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas
       8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*
          1. At the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the Periodic Table
          2. Composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_