

Name: _____

Date: _____

Free Response on Periodic Trends

1. For the following pairs of atoms determine which is larger, draw a picture of Bohr's model, and explain why:

a. Carbon or Oxygen

b. Magnesium or Calcium

c. Lithium or Bromine

2. For each pair of atoms determine which can steal an electron easier (higher electronegativity), draw a picture of Bohr's model, and explain why:

a. Oxygen and Fluorine

b. Sodium and Potassium

c. Boron and Calcium

Name: _____

Date: _____

Free Response on Periodic Trends

3. For each pair of atoms determine which can lose an electron easier (lower ionization energy), draw a picture of Bohr's model, and explain why:

a. Hydrogen and Helium

b. Boron and Aluminum

4. Which is bigger the ion or the atom (be sure to draw a picture of Bohr/s model and explain why).

a. Sodium atom or ion

b. Chlorine atom or ion