General Chemistry
Mr. MacGillivray
Quiz #12:
Periodic Trends

1. The first periodic table was developed by Mendeleev. He arranged the periodic table according to increasing atomic mass.

2. The modern periodic table is now arranged in order of increasing atomic number. Moseley was the scientist whose discoveries made this rearrangement possible.

The next two questions refer to the following elements:

He Xe Kr Ar Ne

3. Are these elements in the same period, the same group, or neither?

same group

4. Arrange them in order of increasing atomic radius:

smallest radius: He, Ne, Ar, Kr, Xe → largest radius

The next two questions refer to the following elements:

Ar Na Al S Cl

5. Are these elements in the same period, the same group, or neither?

same period

6. Arrange these elements in order of increasing electronegativity:

Ar Na Al S Cl

↑ lowest electronegativity

↑ highest electronegativity