

General Chemistry
Mr. MacGillivray
Quiz #12:
Periodic Trends

1. The first periodic table was developed by _____. He arranged the periodic table according to increasing atomic _____.
2. The modern periodic table is now arranged in order of increasing atomic _____. _____ 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?
4. Arrange them in order of increasing atomic 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?
6. Arrange these elements in order of increasing electronegativity:

Periodic Trends

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:

Ne

- same group

4. Arrange them in order of increasing atomic radius:

smallest radius $\xrightarrow{\text{He, Ne, Ar, Kr, Xe}}$ largest radius

The next two questions refer to the following elements:

Cl

- Same period

6. Arrange these elements in order of increasing electronegativity:

Ar Na Al S Cl

↑ lowest electronegativity

↑ highest electronegativity