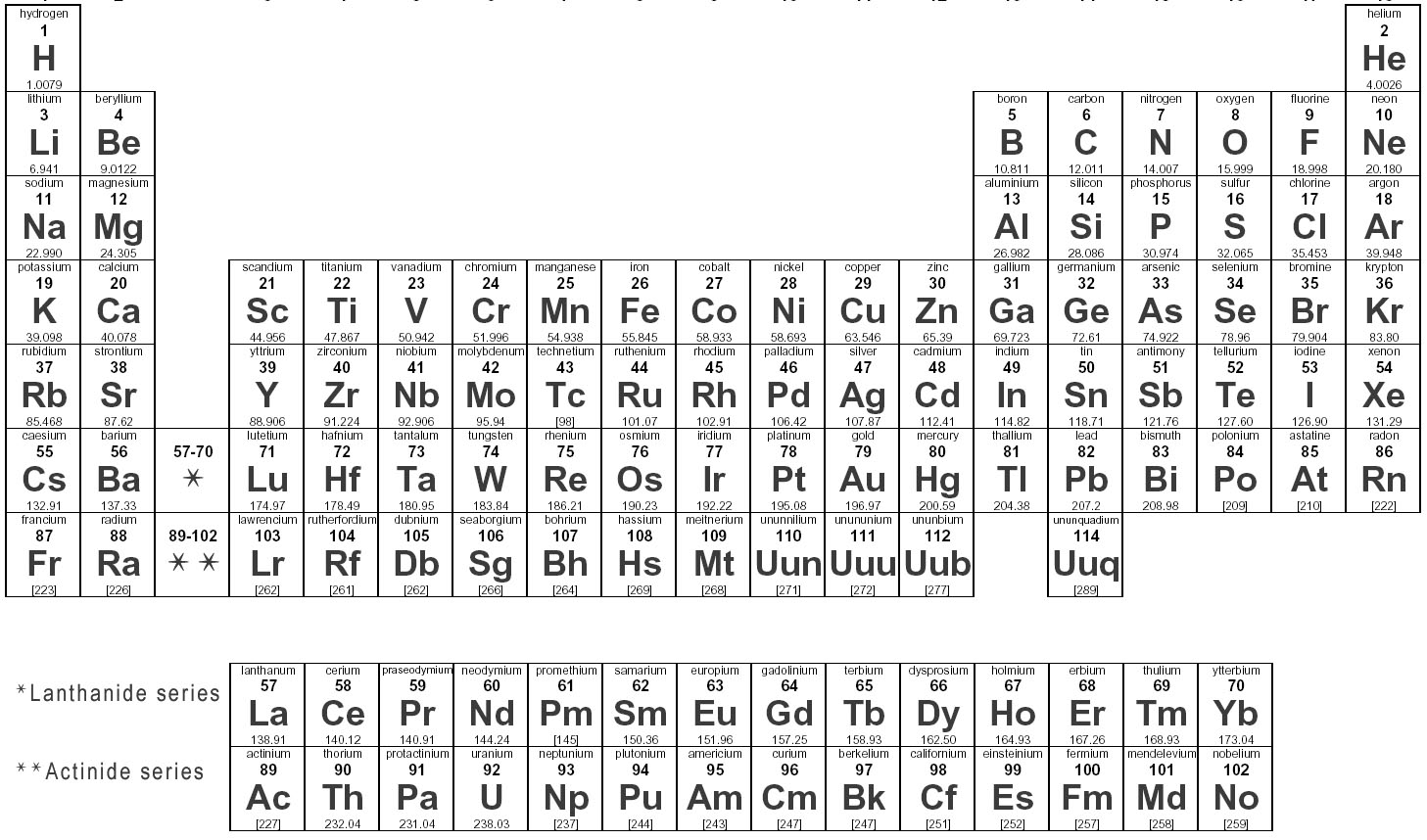
S.I. Mini quiz: Knowledge Assessment.

Name:



Understanding the Periodic table

1) Which of the following is the most electronegative element on the periodic table of elements?

A) Oxygen

B) Caesium

C) Francium

D) Fluorine

2) Which term best explains the relationship between Cu (Copper) – 63.54amu and Cu – 65.98amu?

A) Isomers

B) Enantiomers

C) Isopaths

D) Isotopes

3) Which term best describes the relationship between Be, Mg, Sr, and Ba?

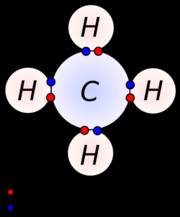
A) All react vigorously with liquid Zn.

B) All are alkaline earth metals

C) Have the same number of valence electrons

D) A & C are correct

E) B & C are correct



4) What kind of bonding is occurring in the compound to the right?

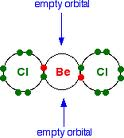
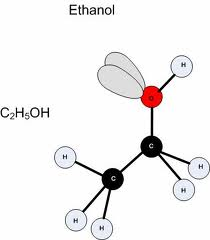
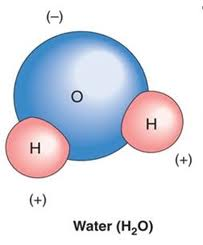
A) Ionic bonding

B) Covalent bonding

C) Metallic bonding

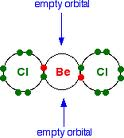
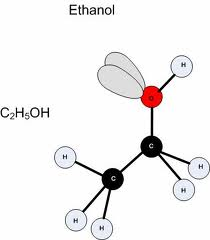
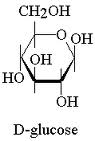
D) More than one answer is correct

5) Which of the following is non-polar overall?

A)  B)  C)  D

E) More than one is correct

6) Which of the following will dissolve in a hydrophilic solvent?

A)  B)  C) D) 

E) All of the above

7) The amount of heat that must be absorbed or lost for 1g of a substance to change its temperature by 1 degree.

A) Calorie

B) Heat

C) Specific Heat

D) Heat of vaporization

Basic Scientific Chemistry

8) Calcuate the molarity when 75.0 grams of MgCl2 is dissolved in 500.0 mL of solution.

A) 1.57 M

B) 0.00157 M

C) 0.788 M

D) 393.90 M

9) 100.0 grams of sucrose is dissolved in 1.50 L of solution. What is the molarity? (Formula for sucrose is C12H22O11)

A) 0.292 M

B) 3.26 M

C) 1.195M

D) 0.194M

10) A 6 g of Sucrose is dissolved in 350 mL of water. What is the Molarity of the final solution? (Formula for sucrose is C12H22O11)

A) 0.0501M

B) 5 x 10 ^ -5 M

C) 0.350 M

D) 0.1501 M

11) How many grams of KMnO4 are needed to make 500.0 mL of a 0.200 M solution?

A) 0.1g

B) 15.8g

C) 15800g

D) 1.58g

12) Which of the following elements are capable of forming a Hydrogen (H) bond in the presence of Hydrogen?

A) Oxygen

B) Nitrogen

C) Carbon

D) A & B

E) B & C

Group Work Questions

13) Milk of Magnesia has an approximate pH of 10, what is the [H] (hydrogen ion concentration) and pOH of milk of Magnesia?

14) Human blood has an average pH of 7.4 under normal physiological conditions. What is the Molarity of Hydrogen ions in human blood?