

Homework 1.

1. Name the following compounds:

- a. MgF_2
- b. GaN
- c. IF_3
- d. CO_2

2. Fill in the blanks

Isotope	Protons	Neutrons	Electrons	Atomic Mass
$^{10}_5\text{B}$				
$^?_?\text{Se}$				79
$^{35}_{17}\text{Cl}^{1-}$		18		

3. In terms of chemical reactivity, Arsenic (As) would be most similar to:

- a.) Se (selenium)
- b.) Ge (germanium)
- c.) N (nitrogen)
- d.) Hg (mercury)

4. The energy of a single photon is calculated to be 1.258×10^{-19} J. What is the frequency of this photon? What is the wavelength? Give correct units.