**Do Now: Isotopes and Radioactivity**

1. What is an isotope?
2. An isotope name of Chlorine -35 tells the element name and the atomic mass number of 35. Chlorine’s atomic number is 17. Chlorine – 35 has 18 neutrons (Atomic mass of 35 – atomic number of 17 = 18 neutrons). Chlorine – 37 has 20 neutrons (37 – 17 = 20).
   1. Identify how many neutrons are in the following isotopes:
      1. Copper – 64
      2. Cesium – 130
      3. Sulfur – 34
      4. Oxygen – 17
      5. Bromine – 76
      6. Krypton – 86
3. What is radioactivity?
4. When is an isotope radioactive?
5. What is radioactive decay?
6. How does one atom of an element change into an atom of another element?
7. What device do you use to detect radioactivity?