

## **Radiometric Dating:**

- **Technique used to date rocks**
- **Measure the ratio of parent to daughter isotopes present in the rock sample**
- **Isotope: atoms of the same element that have a different mass**
- **Atomic Number = number of protons**
- **Atomic Mass = protons plus neutrons**
- **Radioactive Decay: when isotopes with unstable atomic nuclei undergo decay. During this process, the isotope (parent) loses particles from its nucleus to form an isotope of a new element (daughter)**
- **Example: Uranium-235 decays to Lead-207**
- **Half Life: the time it takes for half of a group of radioactive element's isotopes to decay**