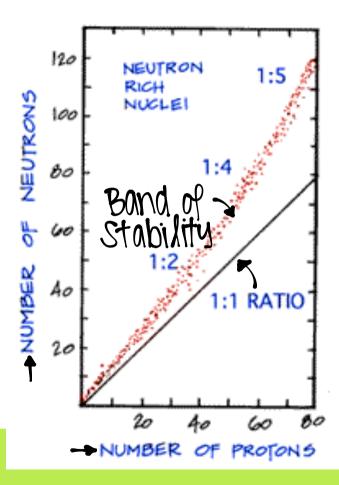


Types of Change: 1. Physical Δ 2. Chemical Δ 3. Nuclear Ann Radiation • Alpha ~ • Beta B • Gamma X

Maria Goepprt-Mayer



Nuclear Stability Chart



Radioisotope: Isotope with an **unstable nucleus**

What makes a nucleus unstable?

Too many neutrons
Use stability chart
Too few neutrons

3. An atomic # larger than 83

Identify the isotope as stable or unstable. If unstable, tell why.

- a. Hydrogen-10 "H UNStable to many neutrons
- b. Helium-4 70 Stable
- c. Calcium-39 20 Stable
- d. Neon-57 10 NC UNSTABLE to many neutrons
- e. Platinum-138 The Pt UNStable to few nutrons
- f. Radium-226 BRO UNSTABLE to many protons

