

## **Study Guide** Section 4.4 Unstable Nuclei and Radioactive Decay

### Key Concepts

- Chemical reactions involve changes in the electrons surrounding an atom. Nuclear reactions involve changes in the nucleus of an atom.
- There are three types of radiation: alpha (charge of  $2+$ ), beta (charge of  $1-$ ), and gamma (no charge).
- The neutron-to-proton ratio of an atom's nucleus determines its stability.



# Study Guide Radioactive Decay Key

**James Trefil, Anthony J. Gaudin, Robert  
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