



Lesson Plan: Nuclear Reactions

This lesson plan includes the objectives, prerequisites, and exclusions of the lesson teaching students how to write and interpret nuclear reactions.

■ Objectives

Students will be able to

- ▶ explain the concept of nuclear stability,
- ▶ identify positron emission and electron capture,
- ▶ compare nuclear and chemical reactions,
- ▶ give examples of transmutation reactions,
- ▶ define transuranium elements.

■ Prerequisites

Students should already be familiar with

- ▶ different forms of ionizing radiation,
- ▶ the properties and locations of subatomic particles.

■ Exclusions

Students will not cover

- ▶ the half-life of radioactive substances.