



Chemistry Content Standards:

Nuclear Processes are those in which an atomic nucleus changes, including radioactive decay of naturally occurring and human-made isotopes, nuclear fission, and nuclear fusion.

Standard 11c: Students know some naturally occurring isotopes of elements are radioactive, as are isotopes formed in nuclear reactions.

Standard 11d: Students know the three most common forms of radioactive decay (alpha, beta, and gamma) and know how the nucleus changes in each type of decay.

- 25.1.1: Explain how an unstable nucleus releases energy
25.1.2: Describe the three main types of nuclear radiation.

Vocab:

Copy and define:

Radioactivity, radiation, radioisotopes, alpha particle, beta particle, gamma ray, half-life, positron, fission, fusion

Quiz:

Subatomic Particles

Lecture:

25.1 PPT (NB 24)
Nuclear radiation
Types of radiation

Classwork:

Practice problems 25.1
Worksheet: Radioactive Decay

Movie:

The Atom Questions

Students will answer questions pertaining to the movie

Interactive

Notebooks:

Progress Check # 1 (Next Class) September 19th and 20th

50 Points for Notebook

Home Work:

Complete questions:

Text: Read Section 25.1, Ans Questions Page 802, 1-6

WB: 25.1