



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.

25.2.1 Describe the type of decay a radioisotope undergoes

25.2.2 Solve problems that involve half-life

25.2.3 Identify two ways transmutations can occur.

Stamp:

Worksheet: Radioactive Decay 1-4
Practice Problems 25.1
Page 802, 1-6
WB 25.1
Voc Chapter 25

Notebook Check: **Peer Review (2 students)**

Pre Write: **Chernobyl Disaster (NB Page 25)**

Lecture: **Fission and Fusion: Part 2 Nuclear Chemistry**

Review: **Nuclear Decay Work Sheet (Done in lab setting)**

Lab: **Lab # 6 Decay (NB Page 26)**

- Students will play decay game, keeping track of attempts before reaching a stable element.
- They will answer all concluding questions
- They will determine the difference between alpha, and beta particles

Classwork:

WB 25.2

Home Work: **Page 808, 9-14**