

30.1 Lesson Plans

KEY

SE = Student Edition, TWE = Teacher Wraparound Edition, TCR = Teacher Classroom Resources, STVS = Science and Technology Videodisc Series, PCA = Physics for the Computer Age

Radioactivity

Section Objectives

- _____ Determine the number of neutrons and protons in nuclides.
- _____ Describe three forms of radioactive decay and solve nuclear equations.
- _____ Define half-life and calculate the amount of material and its activity remaining after a given number of half-lives.


National Science Content Standards UCP.1, UCP.2, UCP.3, A.1, A.2, B.1, B.4, E.1, E.2, G.3

Georgia QCC 1, 1.1, 1.2, 1.3, 9, 9.1, 22, 22.1, 22.2, 22.3, 22.4, 24.1, 24.3, 24.4








Schedule

Block schedule: optional lesson
Single-period schedule: 3 sessions



Focus

-  Focus Strategy, TWE p. 692


Teach

- _____ Help Wanted, SE p. 694
-  Pocket Lab, SE p. 698
-  Physics Lab, SE p. 700
-  Quick Demos, TWE pp. 691, 697
-  Demonstration 30-1, TWE pp. 694–695
- _____ Physics Journal, TWE p. 696
- _____ Connections to Chemistry, TWE p. 698
-  Transparency 54 Master and Worksheet, pp. 119–120, TCR
-  Physics Lab and Pocket Lab Worksheets, pp. 161–163, TCR
-  Laboratory Manual, Lab 30.1, TCR
- _____ Spanish Resources, TCR

Assess/Reteach

-  Section Review, SE p. 699
- _____ Checking for Understanding, TWE p. 699
-  Reteaching, TWE p. 699
-  Study Guide, pp. 175–177, TCR
- _____ Supplemental Problems, TCR

Enrichment/Application

- _____ Tech Prep, TWE p. 696
-  Extension, TWE p. 699
- _____ Critical Thinking, p. 37, TCR
- _____ Enrichment, pp. 59–60, TCR



Close

-  Closing Strategy, TWE p. 699

Chapter Assessment

- _____ Assessment, TWE p. 695
- _____ Performance Assessment in the Science Classroom
- _____ Alternate Assessment in the Science Classroom

Multimedia Options

-  Videotape: MindJogger Videoquizzes
-  Videodisc: STVS Chemistry, Disc 2, Side 2, Chs. 3–7; Physics, Disc 1, Side 1, Ch. 21
- _____ TestCheck Software