



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

The Quantum Model of the Atom

Section Objectives

- _____ Describe the shortcomings of the Bohr model of the atom.
- _____ Describe the quantum model of the atom.
- _____ Explain how a laser works and describe the properties of laser light.

National Science Content Standards UCP.1, UCP.2, UCP.3, A.1, A.2, B.1, B.4, E.1, E.2, F.6, G.3
Georgia QCC 1, 1.2, 1.3, 1.4, 20, 20.1, 20.2, 21, 21.1, 21.2, 24, 24.3, 24.4, 24.5, 24.6, 24.7, 24.9, 24.10

Schedule

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

Focus

- _____ Focus Activity, TWE p. 658

Teach

- _____ Pocket Labs, SE pp. 659, 661
- _____ Help Wanted, SE p. 662
- _____ Physics & Technology, SE p. 663
- _____ Quick Demos, TWE pp. 659, 660
- _____ Physics Journal, TWE p. 661
- _____ Demonstration 28-2, TWE p. 662
- _____ Transparency 52 Master and Worksheet, pp. 113–115, TCR
- _____ Physics Lab and Pocket Lab Worksheets, pp. 154–155, TCR
- _____ Laboratory Manual, Lab 28.2, TCR
- _____ Spanish Resources, TCR

Assess/Reteach

- _____ Section Review, SE p. 664
- _____ Checking for Understanding, TWE p. 664
- _____ Reteaching, TWE p. 664
- _____ Study Guide, pp. 166–168, TCR
- _____ Supplemental Problems, TCR
- _____ Reviewing Physics: Mastering the Georgia QCC, TCR

Enrichment/Application

- _____ Tech Prep, TWE p. 661
- _____ Extension, TWE p. 664

Close

- _____ Closing Strategy, TWE p. 664

Chapter Assessment

- _____ Chapter Review, SE pp. 665–667
- _____ Assessment, TWE pp. 660, 661
- _____ Chapter Assessment, pp. 127–130, TCR
- _____ Alternate Assessment in the Science Classroom
- _____ Performance Assessment in the Science Classroom

Multimedia Options

- _____ **CD-ROM:** Diffraction and Interference of Light, PCA
- _____ **Videotape:** MindJogger Videoquizzes
- _____ **Videodisc:** STVS Physics, Disc 1, Side 1, Ch. 16; Disc 1, Side 2, Ch. 11; Chemistry, Disc 2, Side 2, Ch. 7
- _____ **TestCheck Software**