



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

Light and Matter

Section Objectives

- _____ Explain the formation of color by light and by pigments or dyes.
- _____ Explain the cause and give examples of interference in thin films.
- _____ Describe methods of producing polarized light.

National Science Content Standards UCP.2, UCP.3, A.1, A.2, B.2, B.6, E.1, E.2, G.3
Georgia QCC 1, 12.2, 14.1, 14.2, 14.3, 14.4, 14.10, 14.11, 14.12, 24.3

Schedule

Block schedule: 1 1/2 sessions
 Single-period schedule: 3 sessions

Focus

- Focus Strategy, TWE p. 382

Teach

- | | |
|---|--|
| <ul style="list-style-type: none"> Pocket Labs, SE pp. 383, 386, 387 Quick Demos, TWE pp. 382, 385 _____ Physics Journal, TWE pp. 384, 385 _____ Connections to Biology, TWE p. 384 Demonstration 16-2, TWE pp. 386–387 _____ Applying Physics, TWE p. 387 | <ul style="list-style-type: none"> Transparencies 25, 26, 27 Masters and Worksheets, pp. 51–56, TCR Physics Lab and Pocket Lab Worksheets, pp. 82–84, TCR Laboratory Manual, Lab 16.1, TCR _____ Spanish Resources, TCR |
|---|--|

Assess/Reteach

- | | |
|---|---|
| <ul style="list-style-type: none"> Section Review, SE p. 388 _____ Checking for Understanding, TWE p. 388 Reteaching, TWE p. 388 Study Guide, pp. 94–95, TCR | <ul style="list-style-type: none"> Reteaching, p. 21, TCR _____ Supplemental Problems, TCR Reviewing Physics: Mastering the Georgia QCC, TCR |
|---|---|

Enrichment/Application

- | | |
|--|--|
| <ul style="list-style-type: none"> _____ Enrichment, TWE p. 386 | <ul style="list-style-type: none"> Extension, TWE p. 388 |
|--|--|

Close

- Closing Strategy, TWE p. 388

Chapter Assessment

- | | |
|--|--|
| <ul style="list-style-type: none"> Chapter Review, SE pp. 389–391 _____ Assessment, TWE p. 385 Chapter Assessment, pp. 73–76, TCR | <ul style="list-style-type: none"> _____ Alternate Assessment in the Science Classroom _____ Performance Assessment in the Science Classroom |
|--|--|

Multimedia Options

- | | |
|---|--|
| <ul style="list-style-type: none"> CD-ROM: Waves, PCA Videotape: MindJogger Videoquizzes Videotape: The Mechanical Universe, Quad 7 | <ul style="list-style-type: none"> Videodisc: STVS Physics, Disc 1, Side 1, Ch. 10; Disc 1, Side 2, Ch. 22 _____ TestCheck Software |
|---|--|