



# 2.2

# 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

## Measurement Uncertainties

### Section Objectives

- \_\_\_\_\_ **Distinguish** between accuracy and precision.
- \_\_\_\_\_ **Indicate** the precision of measured quantities with significant digits.
- \_\_\_\_\_ **Perform** arithmetic operations with significant digits.

**National Science Content Standards:** UCP.1, UCP.3, A.1, A.2, E.1, E.2

### Schedule

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

### Focus

- \_\_\_\_\_ Discrepant Event, *TWE* p. 24

### Teach

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>_____ Help Wanted, <i>SE</i> p. 26</li> <li> _____ Quick Demo, <i>TWE</i> p. 25</li> <li>_____ Applying Physics, <i>TWE</i> p. 25</li> <li>_____ Physics Journal, <i>TWE</i> p. 27</li> <li> _____ Laboratory Manual, Labs 2.1, 2.2, <i>TCR</i></li> </ul> | <ul style="list-style-type: none"> <li>_____ <i>Physics Skills, Skills 1–13, TCR</i></li> <li>_____ <i>Graphing Calculators in the Science Classroom</i></li> <li>_____ <i>Spanish Resources, TCR</i></li> </ul> |
|---|--|

### Assess/Reteach

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li> _____ Section Review, <i>SE</i> p. 29</li> <li>_____ Checking for Understanding, <i>TWE</i> p. 28</li> <li> _____ Reteaching, <i>TWE</i> p. 29</li> </ul> | <ul style="list-style-type: none"> <li> _____ <i>Study Guide, pp. 10–11, TCR</i></li> <li>_____ <i>Supplemental Problems, TCR</i></li> </ul> |
|---|--|

### Enrichment/Application

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li> _____ Extension, <i>TWE</i> p. 29</li> </ul> | <ul style="list-style-type: none"> <li> _____ <i>Tech Prep Applications, pp. 1–4, TCR</i></li> </ul> |
|--|--|

### Close

- \_\_\_\_\_ Cooperative Learning, *TWE* p. 29

### Chapter Assessment

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>_____ Assessment, <i>TWE</i> p. 26</li> <li>_____ <i>Alternate Assessment in the Science Classroom</i></li> </ul> | <ul style="list-style-type: none"> <li>_____ <i>Performance Assessment in the Science Classroom</i></li> </ul> |
|--|--|

### Multimedia Options

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li> _____ <b>Videotape:</b> <i>MindJogger Videoquizzes</i></li> <li> _____ <b>Videodisc:</b> <i>STVS Physics, Disc 1, Side 2, Ch. 12</i></li> </ul> | <ul style="list-style-type: none"> <li>_____ <b>TestCheck Software</b></li> </ul> |
|---|---|