

CONTENTS

Chapter 1: Supplemental Questions.....	4
Chapter 2: Supplemental Questions.....	6
Chapter 3: Supplemental Questions.....	8
Ch. 1-3 Review.....	9
Chapter 4: Supplemental Questions.....	12
Chapter 5: Supplemental Questions.....	13
Chapter 6: Supplemental Questions.....	15
Ch. 4-6 Review.....	16
Chapter 7: Supplemental Questions.....	19
Chapter 8: Supplemental Questions.....	20
Chapter 9: Supplemental Questions.....	22
Chapter 10: Supplemental Questions.....	23
Ch. 7-10 Review.....	24
Chapter 11: Supplemental Questions.....	27
Chapter 12: Supplemental Questions.....	29
Chapter 13: Supplemental Questions.....	30
Chapter 14: Supplemental Questions.....	32
Ch. 11-14 Review.....	33

EXPLORING THE WORLD OF PHYSICS

Chapter 1 Supplemental Questions

1. Explain Galileo's principle of the pendulum. Include what happens to the period (the complete cycle—the time it takes the pendulum to get back to where it was released, when the angle of the pendulum arc is changed). Also, what happens to the period if the length of the pendulum is shortened? Increased?

2. What use was this discovery to science?

3. How did Aristotle's and Galileo's methods of explaining observation differ?

4. What conclusions did each reach for "falling bodies," and whose method do we use today?

5. Astronaut David Scott proved Galileo's observation that all objects fall at the same rate disregarding air resistance. Explain why this worked on the moon but wouldn't work on the earth.
