Focus Questions
Grade One

**Balls and Ramps** (Insights)

Lesson 1: *Introducing Balls*
How can you describe different balls?

Lesson 2: *Differences*
How are balls the same and how are they different?

Lesson 3: *Comparing Balls*
What are some other ways that balls are the same and different?

Lesson 4: *Straws and Balls*
Which balls are easier and harder to start moving and to stop?

Lesson 5: *Bouncers*
What kinds of balls are good bouncers?

Lesson 6: *Comparing Bounciness I*
How can we *measure* the bounciness of balls to find the best bouncer?

Lesson 7: *Comparing Bounciness II*
What is the same about good bouncers?

Lesson 8: *Making Balls*
What properties affect a ball’s movement?

Lesson 9: *Making More Balls*
What materials can balls be made of and how should they be constructed so they can roll and bounce?

Lesson 10: *Balls, Ramps, and Roadways*
How do properties of roadways and ramps affect the way balls move?

Lesson 11: *Exploring Different Ramps*
How does the height of the ramp affect how a ball rolls and moves an object?
Balls and Ramps Focus Questions  (Continued)

Lesson 12: Ramps and Different-Weight Balls
Does the weight of a ball affect how fast it rolls down a ramp?

Lesson 13: Ramps and Different-Size Balls
Does the size of a ball affect how fast it rolls down a ramp?

Lesson 14: Building a Complex System
How can you control the behavior of the balls by building a ramp system?