

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?