Energy and Motion

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A skateboard test

A class pushed a skateboard along a hallway at three speeds so that it hit a stack of cardboard boxes. They timed each speed with a stopwatch and measured how far the boxes were pushed.

Slow run: 12 cm

Medium run: 40 cm

Fast run: 95 cm

1. What did the tester change to give the skateboard different amounts of energy of motion?

_____

2. Which run gave the skateboard the most energy of motion?

_____

3. Which run gave the skateboard the least energy of motion?

_____

4. Which gives the skateboard more energy of motion: the slow run or the medium run? Write the word.

_____

5. A faster skateboard hits the stack of boxes. Will the boxes be pushed farther or not as far? Write farther or not as far.

_____

6. When the skateboard hits the boxes, some of its energy of motion moves to the _____ . Write the word.

7. Which result shows the most energy of motion passed to the boxes? Write the number.

_____

8. The faster an object moves, the _____ energy of motion it has. Write more or less.

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Answer Key - Grade 4 Science Worksheet - Building Confidence

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A class pushed a skateboard along a hallway at three speeds so that it hit a stack of cardboard boxes. They timed each speed with a stopwatch and measured how far the boxes were pushed.

Slow run: 12 cm

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Fast run: 95 cm

1. What did the tester change to give the skateboard different amounts of energy of motion?

   speed

2. Which run gave the skateboard the most energy of motion?

   fast

3. Which run gave the skateboard the least energy of motion?

   slow

4. Which gives the skateboard more energy of motion: the slow run or the medium run? Write the word.

   medium

5. A faster skateboard hits the stack of boxes. Will the boxes be pushed farther or not as far? Write farther or not as far.

   farther

6. When the skateboard hits the boxes, some of its energy of motion moves to the **boxes** . Write the word.

7. Which result shows the most energy of motion passed to the boxes? Write the number.

   95

8. The faster an object moves, the **more** energy of motion it has. Write more or less.