Energy and Motion

Grade 4 Science Worksheet

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A ramp and block test

Sam let a toy car roll down a ramp and crash into a foam block. He used a low, a middle and a high ramp, and measured how far the block was pushed each time.

Low ramp: 6 cm
Middle ramp: 15 cm
High ramp: 28 cm

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

_____

2. Which ramp gave the car the most energy of motion?

_____

3. Which gives the car more energy of motion: the low ramp or the middle ramp? Write the word.

_____

4. A faster car hits the foam block. Will the block be pushed farther or not as far? Write farther or not as far.

_____

5. Which result shows the most energy of motion passed to the block? Write the number.

_____

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

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

8. The tester gives the car even more speed than in the fastest trial. Will the result be more than 28 cm or less than 28 cm? Write more or less.

_____

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Answer Key - Grade 4 Science Worksheet

Read the investigation. Write the answer on the line.

READ THIS FIRST

A ramp and block test

Sam let a toy car roll down a ramp and crash into a foam block. He used a low, a middle and a high ramp, and measured how far the block was pushed each time.

Low ramp: 6 cm
Middle ramp: 15 cm
High ramp: 28 cm

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

ramp height

2. Which ramp gave the car the most energy of motion?

high

3. Which gives the car more energy of motion: the low ramp or the middle ramp? Write the word.

middle

4. A faster car hits the foam block. Will the block be pushed farther or not as far? Write farther or not as far.

farther

5. Which result shows the most energy of motion passed to the block? Write the number.

28

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

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

8. The tester gives the car even more speed than in the fastest trial. Will the result be more than 28 cm or less than 28 cm? Write more or less.

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