Energy and Motion

Grade 4 Science Worksheet - Building Confidence

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A rubber band cart test

Zoe stretched a rubber band different amounts to launch a small cart into a wooden block. The more the band is stretched, the faster the cart leaves. She measured how far the block slid.

2 cm stretch: 30 cm
4 cm stretch: 85 cm
6 cm stretch: 150 cm

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

_____

2. Which stretch gave the cart the most energy of motion?

_____

3. Which stretch gave the cart the least energy of motion?

_____

4. Which gives the cart more energy of motion: the 2 cm stretch or the 4 cm stretch? Write the word.

_____

5. A faster cart hits the wooden block. Will the block slide farther or not as far? Write farther or not as far.

_____

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

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

_____

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

Scan to get this marked free. No screen time for your child.
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

Energy and Motion

Answer Key - Grade 4 Science Worksheet - Building Confidence

Read the investigation. Write the answer on the line.

READ THIS FIRST

A rubber band cart test

Zoe stretched a rubber band different amounts to launch a small cart into a wooden block. The more the band is stretched, the faster the cart leaves. She measured how far the block slid.

2 cm stretch: 30 cm
4 cm stretch: 85 cm
6 cm stretch: 150 cm

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

stretch

2. Which stretch gave the cart the most energy of motion?

6 cm

3. Which stretch gave the cart the least energy of motion?

2 cm

4. Which gives the cart more energy of motion: the 2 cm stretch or the 4 cm stretch? Write the word.

4 cm

5. A faster cart hits the wooden block. Will the block slide farther or not as far? Write farther or not as far.

farther

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

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

150

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