Energy and Motion

Grade 4 Science Worksheet

Name _____ Date _____

Read the investigation. Write the answer on the line.

READ THIS FIRST

A toy truck test

Dev pushed a toy truck so that it crashed into a small box on a smooth table. He gave the truck a gentle push, a medium push and a hard push, and measured how far the box slid.

Gentle push: 8 cm
Medium push: 22 cm
Hard push: 51 cm

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

_____

2. Which push gave the truck the most energy of motion?

_____

3. Which gives the truck more energy of motion: the gentle push or the medium push? Write the word.

_____

4. A faster truck hits the small box. Will the box slide farther or not as far? Write farther or not as far.

_____

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

_____

6. When the truck hits the box, 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 truck even more speed than in the fastest trial. Will the result be more than 51 cm or less than 51 cm? 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

Read the investigation. Write the answer on the line.

READ THIS FIRST

A toy truck test

Dev pushed a toy truck so that it crashed into a small box on a smooth table. He gave the truck a gentle push, a medium push and a hard push, and measured how far the box slid.

Gentle push: 8 cm
Medium push: 22 cm
Hard push: 51 cm

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

   push

2. Which push gave the truck the most energy of motion?

   hard

3. Which gives the truck more energy of motion: the gentle push or the medium push? Write the word.

   medium

4. A faster truck hits the small box. Will the box slide farther or not as far? Write farther or not as far.

   farther

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

   51

6. When the truck hits the box, some of its energy of motion moves to the **box** . 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 truck even more speed than in the fastest trial. Will the result be more than 51 cm or less than 51 cm? Write more or less.

   more