Forces and Motion

Grade 3 Science Worksheet - Building Confidence

Name _____ Date _____

Circle the answer.

1. You let go of a ball. Which force makes it fall to the ground?

   magnetism friction gravity

2. Two kids pull a rope with the same force in opposite directions. What happens to the rope?

   it does not move

   it moves toward the right kid

   it moves toward the left kid

3. A cart is pushed harder than before. What happens?

   it stays still it slows down it speeds up more

4. A swing goes back and forth again and again. What can you predict?

   it will come back to the same side

   it will stop at the top and stay there

   it will swing in a circle

5. Which is a pull?

   pressing a doorbell

   opening a drawer toward you

   kicking a ball away

6. A soccer ball is rolling. A player kicks it from the side. What happens?

   it keeps rolling the same way

   it changes direction

   it rolls back toward the kicker

7. A heavy box does not move when you push it gently. What does this show?

gravity pushes the box sideways

friction is as strong as your push

there is no force on the box

8. Which makes a toy car roll farther on the same floor?

a harder push

a softer push

a heavier car with the same push

9. A ball is rolled with the same push on grass and on a smooth floor. Where does it roll farther?

on the grass on the smooth floor the same on both

10. A dog pulls a sled with a rope. Which way does the sled move?

away from the dog toward the dog it does not move

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.

Forces and Motion

Answer Key - Grade 3 Science Worksheet - Building Confidence

Circle the answer.

1. You let go of a ball. Which force makes it fall to the ground?

   magnetism friction **gravity**

2. Two kids pull a rope with the same force in opposite directions. What happens to the rope?

   it does not move

   it moves toward the right kid

   it moves toward the left kid

3. A cart is pushed harder than before. What happens?

   it stays still it slows down **it speeds up more**

4. A swing goes back and forth again and again. What can you predict?

   it will come back to the same side

   it will stop at the top and stay there

   it will swing in a circle

5. Which is a pull?

   pressing a doorbell

   opening a drawer toward you

   kicking a ball away

6. A soccer ball is rolling. A player kicks it from the side. What happens?

   it keeps rolling the same way

   it changes direction

   it rolls back toward the kicker

7. A heavy box does not move when you push it gently. What does this show?

gravity pushes the box sideways

friction is as strong as your push

there is no force on the box

8. Which makes a toy car roll farther on the same floor?

a harder push

a softer push

a heavier car with the same push

9. A ball is rolled with the same push on grass and on a smooth floor. Where does it roll farther?

on the grass | on the smooth floor | the same on both

10. A dog pulls a sled with a rope. Which way does the sled move?

away from the dog | toward the dog | it does not move