Forces and Motion

Grade 3 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A soccer player stops a rolling ball with her foot. What did her foot do?

   added speed to the ball

   took gravity away from the ball

   made the ball lighter

   pushed against the ball's motion

2. A child on a swing is pushed once and swings back and forth. Which pattern helps predict where the swing will be?

   it swings in one direction only

   it goes higher with every swing

   it goes to one side, then the other, over and over

   it stops after one swing

3. A box is pushed with 10 units of force from the left and 10 units from the right. What happens?

   it moves left, because the left push wins

   it moves right, because the right push wins

   it stays still, because the forces are balanced

   it moves up, because the forces meet

4. A box is pushed with 15 units from the left and 5 units from the right. Which way does it move?

   to the right it spins in place to the left it stays still

5. A ball rolls across a floor and slowly stops. Why?

   friction from the floor slows it

   gravity pushes it backward

   the ball runs out of push inside it

   air pushes it to the side

6. A pendulum takes 2 seconds to swing over and back. How long will 3 swings over and back take?

   3 seconds 6 seconds 5 seconds 2 seconds

7. Which change will make a book stop sooner when it slides across a table?

putting a rough towel on the table

pushing the book harder

sliding it on smooth glass

waxing the table smooth

8. Two children ride a seesaw. When one end goes up, what does the other end do?

it goes down it spins around it stays still it goes up too

9. A marble rolls back and forth in a bowl. Each time it goes a little less high up the side. What will happen if no one pushes it?

it will stop at the bottom

it will stop near the top

it will roll out of the bowl

it will roll higher each time

10. Team A pulls a rope with 50 units of force. Team B pulls with 70 units. What happens?

the rope moves toward Team A

the rope stays still

the rope breaks in the middle

the rope moves toward Team B

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Answer Key - Grade 3 Science Worksheet

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