



# Forces and Motion

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 3

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. A pattern of motion can be \_\_\_\_\_ to predict future motion.
2. A swing goes back and forth in a repeating \_\_\_\_\_.
3. When a force stops acting, friction can \_\_\_\_\_ an object down.
4. A ball thrown straight up comes back \_\_\_\_\_ because of gravity.
5. A rolling ball will keep going until a \_\_\_\_\_ stops it.
6. If you push harder, the object moves with more \_\_\_\_\_.
7. The path an object takes is called its \_\_\_\_\_ of motion.
8. When no forces act, a resting object stays at \_\_\_\_\_.
9. A pendulum swinging the same way each time shows a \_\_\_\_\_ pattern.

## Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Swing pendulum	→ _____	Repeats back and forth
Friction on floor	→ _____	Slows a rolling toy
Gravity on dropped apple	→ _____	Pulls it straight down
No forces acting	→ _____	Object stays at rest

**Part A: Fill in the Blank**

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Write the missing word or number on each line.

1. A pattern of motion can be used to predict future motion.
2. A swing goes back and forth in a repeating pattern .
3. When a force stops acting, friction can slow an object down.
4. A ball thrown straight up comes back down because of gravity.
5. A rolling ball will keep going until a force stops it.
6. If you push harder, the object moves with more speed .
7. The path an object takes is called its direction of motion.
8. When no forces act, a resting object stays at rest .
9. A pendulum swinging the same way each time shows a regular pattern.

**Part B: Matching**

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Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Swing pendulum	→ <u>Repeats back and forth</u>	Repeats back and forth
Friction on floor	→ <u>Slows a rolling toy</u>	Slows a rolling toy
Gravity on dropped apple	→ <u>Pulls it straight down</u>	Pulls it straight down
No forces acting	→ <u>Object stays at rest</u>	Object stays at rest