




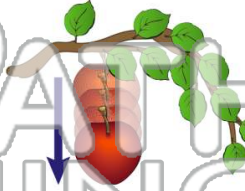
Name _____ Class _____ Date _____

1 In what way do designers of roller coasters use **friction** to their **advantage**?




A to slow down roller coasters
B to make roller coaster speed up
C to keep roller coasters in motion
D to help roller coasters sound louder

2 _____ is an **attractive force** that attempts to pull two objects **together**.



A Work
B Friction
C Gravity
D Inertia

3 **Mass** and **distance** affect _____.




4 Objects in motion tend to **stay in motion**. Motion only changes if an unbalanced outside force causes change. This **resistance to change** of motion is called _____.



PREVIEW


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7 **Newton's second law of motion?**




A its height added to its speed
B its weight divided by its acceleration
C its mass times its acceleration
D its width times its speed

8 If you were to hold all these items in your hand, lift them up, and drop them all, which item would hit the ground with the **greatest force**?



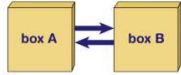
A the book
B the pencil
C the paper clip
D the crayon

9 According to **Newton's third law of motion**, what does **every action** have?



A no reaction
B an equal and opposite reaction
C the same reaction
D a larger reaction

10 When object A exerts a force onto object B, object B exerts a force of **equal strength in the opposite direction** on object A. Which of **Newton's laws** does this example support?




A Newton's gravitational law
B Newton's third law of motion
C Newton's second law of motion
D Newton's first law of motion



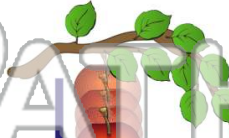
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7 **Newton's second law of motion**?




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8 If you drop the following items from the top of a table in the air and drop them all, which item would hit the ground with the **greatest force**?



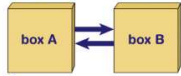
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