

Physical Science Chapter 11 Test Review

- Two children fight over a toy, pulling in opposite directions. The first pulls East with a force of 20N. The second child pulls West with a force of 40N. What is the net force on the toy?
 - 20 N West
- A net force will cause an object to
 - Accelerate (speed up, slow down, change direction)
- A Newton is a unit of _____ and is equal to 1 _____.
 - Force; kg-m/s
- Newton's First Law is also called the Law of _____.
 - Inertia
- In order to find the force of an object, you must know its
 - Mass and acceleration
- According to Newton's First Law, a book on a shelf will stay put unless
 - A net force or unbalanced force acts on it
- According to Newton's First Law, a ball rolling down the street would roll forever. In reality, the ball stops because
 - A net force (friction) acts on the ball
- According to Newton's Second Law, force can be increased by
 - Increasing mass or increasing acceleration
- A kid stands on a skateboard and throws a baseball to a friend. According to Newton's Third Law, the skateboard will
 - Move backwards away from the throw with a force equal to the throw
- A pencil is dropped on the floor. According to Newton's Third Law, the floor and pencil
 - Hit each other with equal and opposite forces
- A Ninja karate chops a brick. What is the action force?
 - Ninja's hand on the brick
- You and a friend decide to go to Target and have a shopping cart race. When planning your strategy, you decide to choose an empty cart because
 - Less mass means less inertia, which makes the cart easier to accelerate (speed up, slow down, change direction)
- Anything with mass has
 - gravity
- As you get closer to Earth's surface, the force of _____ becomes stronger.
 - gravity
- In a plane, you weigh less because
 - You are farther from earth's surface and gravity is less
- A soccer player kicks a ball. The reaction force is
 - Ball's force on the kicker's foot
- By the year 2050, families will vacation on the moon. While on vacation with your children, you will
 - Have the same mass but weigh less
- A _____ is a unit of weight and a _____ is a unit of mass.
 - Newton, kilogram (or gram, milligram)
- An elephant and his friend the mouse go sky diving together on the moon. Since there is no air resistance, the
 - Elephant and mouse hit the surface together

Physical Science Chapter 11 Test Answers

Ian Pickup



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