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Crash Course Physics #5: Newton's Laws

Name: _____ Date: _____

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- Newton's first law is also called the law of _____.
- An object at rest stays at rest unless acted on by a _____.
- _____ is a measure of an object's inertia.
- Newton's second law is commonly written as _____.
- A net force causes an object to _____.
- An object in _____ has no change in velocity.
- The acceleration due to Earth's gravity is approximately _____ m/s^2 .
- The force of gravity is also known as _____.
- Weight is measured in _____ not kilograms.
- Newton's third law states: for every action, there is an equal but opposite _____.
- The _____ force is the upward force exerted by a surface on an object.
- The upward pulling force from a rope is called the _____ force.
- A _____ is a diagram that shows all the forces acting on an object.
- When solving for net force in a _____, the direction of acceleration is determined by the difference in weights.
- To find acceleration from Newton's second law, divide net force by total _____.

Crash Course Physics #5: Newton's Laws KEY

- Newton's first law is also called the law of *inertia*.
- An object at rest stays at rest unless acted on by a *force*.
- Mass* is a measure of an object's inertia.
- Newton's second law is commonly written as $F = ma$.
- A net force causes an object to *accelerate*.
- An object in *equilibrium* has no change in velocity.
- The acceleration due to Earth's gravity is approximately **9.81** m/s^2 .
- The force of gravity is also known as *weight*.
- Weight is measured in *Newtons*, not kilograms.
- Newton's third law states: for every action, there is an equal but opposite *reaction*.
- The *normal* force is the upward force exerted by a surface on an object.
- The upward pulling force from a rope is called the *tension* force.
- A *free body diagram* is a diagram that shows all the forces acting on an object.
- When solving for net force in a *pulley system*, the direction of acceleration is determined by the difference in weights.
- To find acceleration from Newton's second law, divide net force by total *mass*.

15 Questions

Answer Key Included

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