

Forces, Motion and Interactions

Balanced and Unbalanced Forces

There are many forces that can act on an object. Sometimes there is only one force, but other times two, three, or even four forces can act on an object. If more than one force is acting on an object, the total of the forces is called the **net force**.



Balanced Forces

Sometimes forces can cancel each other. In the example below, the forces **A** and **B** are equal, but acting in opposite directions to each other. The two forces are called **balanced** because they cancel each other out. If the ball was at rest, it would stay at rest. If the ball was in motion, it would stay in motion.



In order for a change of motion to occur, the total forces must be **unbalanced**. A tug-of-war is an example of balanced and unbalanced mechanical forces. If the forces are equal and opposite, they are in balance and there will be no change in motion. If one side provides more pulling force than the other, the forces are



Structural Forces

Structures such as tables and chairs provide a structural force that opposes the force of gravity. Even when nothing is on the table, gravity is constantly pulling the table downwards. The supporting force of the table is a **pushing force** that opposes the force of gravity. When objects are placed on a table, the force of gravity pulling the mass downwards increases.



Imagine that so much mass was added to the table that it eventually collapsed. At this point, the force of gravity pulling the mass downwards is greater than the supporting force of the table. The forces are not balanced, a change of motion occurs, and the table collapses. By using different materials or improving the design of the table, the amount of mass that a table can support can be increased.



Bridges have similar forces acting on them. The bridge must provide enough force to support the gravitational mass of the truck as it drives across the bridge.

Magnetic Force

Magnetic force is a force produced by magnets that can attract (pull) or repel (push) other objects. Most magnets are made of iron, and the atoms of iron are special because they are able to separate into negative and positive charges. The charges are charged at the two ends of a magnet, which are called poles.

South Pole



North Pole

An invisible force field surrounds a magnet and can extend far away from the magnet. Magnetic force acts over a distance, and unlike the force of friction, a magnet does not have to be touching an object to affect it. A compass is a device that is used to detect a magnetic field.

Because the core of the Earth contains iron, the Earth itself is a magnet. A magnetic force field surrounds our planet and protects the Earth from dangerous radiation from the Sun. Without this invisible shield, life on Earth would not be possible.



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Motion And Forces Comprehension

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