

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.

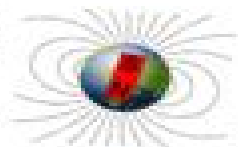
South Pole



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.



Reading Comprehension Passages and Questions

Motion And Forces Comprehension

**Susan Ballinger, Ruth Fielding, Diane J.
Tedick**



Motion And Forces Comprehension:

Teacher Development for Content-Based Language Education Susan Ballinger, Ruth Fielding, Diane J. Tedick, 2024-09-10
This book fills a large gap in our understanding of how to prepare teachers for the challenging but increasingly popular task of integrating content and language instruction. It brings together findings on content-based teacher education from Africa, Asia, Australia, Europe, and North America in order to inform researchers and teacher educators and enable them to play a critical role in the continued success of such programs. It offers a solid grounding in theories and applications of content-based approaches with empirical studies investigating teacher identity, materials design, use of cognitive discourse functions, and best practices for teacher education. Responding to the growing popularity of content-based programs and the shortage of qualified teachers for these contexts, this book promotes teacher-researcher collaboration and provides support for trainee teachers, in-service teachers, and course leaders.

Mathematics, Science and Technology Education Programs That Work Luna Levinson, 1994-12
The math/science/technology education programs in this report provide an array of innovative ideas for elementary/secondary teachers.

Force, Motion & Simple Machines, Big Book George Graybill, 2007
Give your students a kick start on learning with all the required fundamentals for teaching force, motion, simple machines.

A Year of PebbleGo Karen Aleo, Shannon Miller, 2018-08-15
Why are the five senses important? What can I find in my neighborhood? Young students are bursting with many questions about the world in which they live, and PebbleGo, the popular K-2 subscription database, offers articles to answer those questions and more. But what can you do to support student comprehension through PebbleGo and really make the most of this rich resource? Now there's a way to connect science and social studies content to literacy skills while tapping into the wealth of information on PebbleGo. *A Year of PebbleGo* provides opportunities that guide comprehension of PebbleGo articles. Included are 52 lessons to enhance comprehension and research skills. Most lessons are also rounded out with collaborative, project-based learning and differentiation support. With *A Year of PebbleGo*, you can help young students build the knowledge and skills needed to take them to the next level.

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 Essays on Mind, Matter Forces, Theology, etc Charles Edward Townsend, 1876 **The Quarterly Review of the Methodist Episcopal Church, South** , 1884

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