

Fantastic Forces - How do forces and magnets affect the movement of objects around us?



STICKY KNOWLEDGE

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| A force is a push or pull. Forces can make things move, change their speed, or change their shape. | Friction always slows a moving object down. | Magnets have two poles: a north pole and a south pole. |
| The force of magnets is called magnetism. | A magnetic field surrounds all magnets. | Magnets can be used to move objects. |

Key Scientist: William Gilbert

William Gilbert is a famous scientist, known for his work on magnetism and electricity.

Gilbert was the first to propose that the Earth's core contains iron and that that magnets point north because the Earth itself is a giant magnet.

Gilbert used practical experiments to test his theories. His work was a significant step towards the scientific method.



KEY VOCABULARY

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| force | a power or strength that can cause an object to move |
| friction | the force that pulls backwards when objects rub against each other |
| magnet | an object that can pull some metal items towards it |
| magnetic field | the force that surrounds a magnet and attracts magnetic objects |
| motion | the process of movement |
| attract | to pull towards |

