

# Force

- Force is **required to change motion**, not to maintain uniform motion.
- **Force is a push or pull** that changes motion or shape through interaction.
- Force always arises due to **interaction between two objects**.
- **Force is a vector quantity** with magnitude and direction.
- **Net force determines motion**, not individual forces.
- **Balanced forces have zero net force** and do not change motion.
- **Balanced forces can change shape** without causing motion.
- Unbalanced forces **always produce acceleration**.
- Contact forces **require physical contact** between objects.
- Non-contact forces **act from a distance** without physical contact.


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