

# Forces & Motion in Winter Sports — Knowledge Organiser

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## Key facts

- Winter sports are a great way to see forces in action.
- Ice is slippery because there is very little friction.
- Skates and skis glide easily on snow and ice.
- Pushing harder makes you go faster; friction and gravity slow or speed you.

## Key vocabulary

- Force — a push or a pull.
- Friction — a force that slows sliding surfaces.
- Gravity — the pull towards the ground.
- Motion — movement.

## Why ice is slippery

Ice has very low friction, so skates and skis slide easily — that is the science behind gliding across a rink or down a slope.

## Speeding up and slowing down

Gravity pulls a skier downhill; friction and turning slow them down — forces at work in every winter sport.