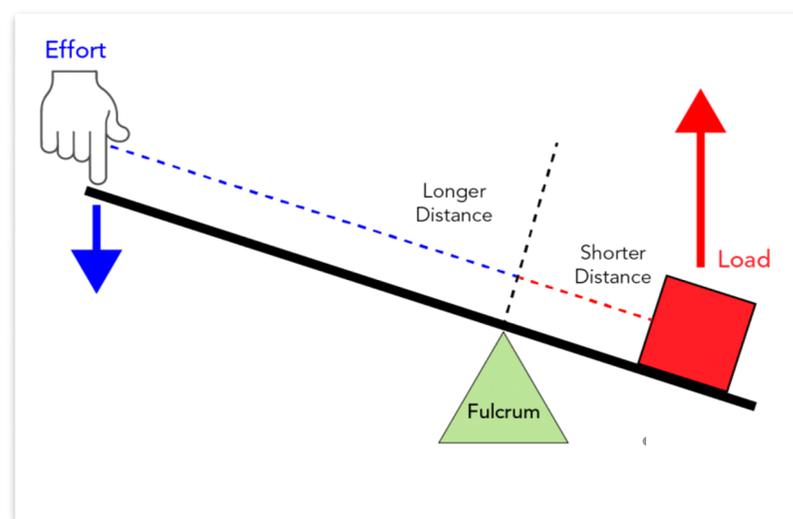
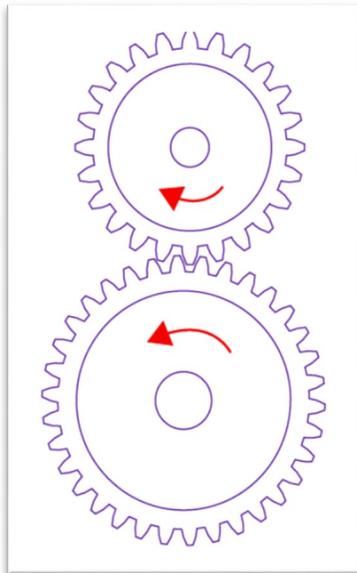
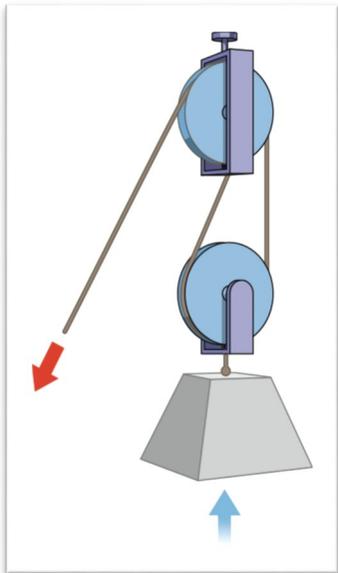


Science knowledge

LEARNING RECAP

- Gravity is the force that pulls objects to the centre of the Earth.
- Gravity also holds Earth and the other planets in their orbits around the Sun.
- On Earth, gravity is the reason why things fall when they are dropped and why we don't float away.
- Air resistance pushes up on the parachute, opposing the force of gravity . This makes the parachute land more slowly.
- Water resistance is the friction that is created between water and an object that is moving through it.
- Forces are pushes and pulls. These forces change the motion of an object.



Pulleys, gears, and levers are simple machines that we can use to help move objects around.

By using these machines, you can increase the force applied to an object, allowing you to lift or move things that would be more difficult with bare hands.

Science Vocabulary

| Word | Definition |
|-------------------|--|
| gears | Gears are wheels with teeth that slot together . When one gear is turned the other one turns as well. |
| pulley | Pulleys are made by looping a rope over one or more wheels . They are often used to lift heavy objects: pulling down on one end of the rope creates an upward pull at the other end |
| lever | A bar resting on a fulcrum which can lift something when a force is applied to the other side. |
| fulcrum | Is a place where a lever can tilt. |
| friction | The resistance of motion when one object rubs against another. |
| resist | a force that opposes or slows down another force |
| mechanism | A mechanism is a mechanical device for doing something |
| accelerate | Is how fast an object or person speeds up . |
| decelerate | Is how fast an object or person slows down. |
| mass | Mass is the amount of substance that makes up an object . Mass always stays the same, while weight changes with changes in gravity. |