

air resistance

A force that acts on an object when it moves through the air, causing it to slow down.

algorithm

A set of rules or instructions that will help you to find the answer to a problem, especially when given to a computer.

amenity

A place that is intended to make life more comfortable or pleasant for people, such as a swimming pool or shopping centre.

budget

A plan that shows how much money someone will need to carry out a particular activity.

buoyancy

The ability to float.

cam

A shaped piece of metal or plastic that is fixed to a rotating shaft.

cam mechanism

A type of mechanism that changes one type of motion to another type of motion. For example, a circular cam changes circular movement into movement in a straight line.

capacity

The amount that a container or place can hold. For example, a roller coaster carriage might have a seating capacity of six people.

centripetal force

A force that makes an object follow a curved path.

drop ride

A ride that includes a fast, sudden fall from a height.

engineer

A person who builds, designs or maintains structures, engines or machines.

exert

To use strength to cause a force or movement.

force

A push or pull that can change an object’s speed, shape or direction of movement.
For example, kicking a football applies a force that causes it to move.

gravity

The force that attracts things towards the centre of the Earth.

load

The mass of an object that is being moved or lifted.

log flume

A ride with a water chute.

logo

A symbol or design that a company uses to advertise and identify its products.

loop the loop

A part of a ride where the roller coaster carriage goes upside down around a loop-shaped section of track.

mechanism

A part of a machine, or several parts that work together.

motor

A device that changes fuel or electricity into movement to make a machine work.

oscillate

To move back and forth from one position to another.

pendulum

An object suspended from a fixed point so that gravity causes it to swing back and forth.

pivot

A fixed point supporting something that balances or turns.

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prototype

An initial model that allows a designer to test out their idea before developing it further.

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pulley

A simple piece of equipment that is used for moving heavy objects up or down.

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roller coaster

An exciting ride that resembles a fast train and usually travels around sudden bends or up and down steep slopes.

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water resistant

Material that does not let water pass through it easily.

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water spout

A column of water that simulates a roller coaster hitting a body of water, though the ride doesn't touch the water.