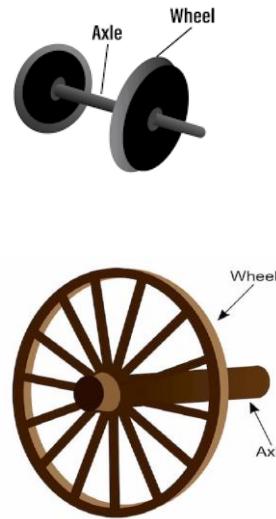


- Mechanisms are the **parts that make something work**
- Mechanisms are all around us! Most objects that help us in our lives are made up of different mechanisms
- Wheels and axles** are mechanisms that help things to move
- Wheels** are circular objects that roll on the ground, helping vehicles and other objects to easily move
- Axes** are rods that help wheels to rotate. The wheel can either rotate freely on the axle, or can be attached to (and turn with) the axle



Example mechanisms		
	Ferris wheel	<ul style="list-style-type: none"> A Ferris Wheel is one example of a wheel and axle mechanism in action Normally, Ferris Wheels are fixed to the axle Force is applied to the axle to make it spin
	Roller skates	<ul style="list-style-type: none"> Roller skates are another example of wheel and axle mechanisms Often, the wheels rotate freely from the axle, but sometimes they are fixed
	Toy car	<ul style="list-style-type: none"> Toy cars (and real cars) use wheel and axle mechanisms to move On toy cars, the wheel is normally fixed to the axle, meaning both the wheel and axle spin It is important that there is not too much friction acting on the axle, or the wheel will not move!

Key vocabulary

Axle	A rod which helps a wheel to rotate
Chassis	The frame or base on which a vehicle is built
Design	To plan and create something using a plan
Dowel	A cylindrical rod, often made from wood
Friction	The action of one surface or object rubbing against another
Mechanism	The parts that make something work
Wheel	A circular object which rolls on the ground Can be fixed to the axle or free If not attached, they will need a stopper to prevent them from falling off

Health and safety

- Tie back long hair
- Walk safely and calmly around the classroom
- Follow the teacher's instructions carefully
- Make sure that you are using the right equipment for the task
- If you need to move around with scissors, hold around the closed blades, facing down

