



ST ALBAN'S  
CATHOLIC PRIMARY SCHOOL  
LEAD THE WAY

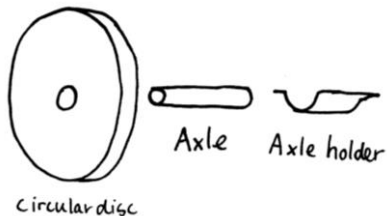
# Year 2 Design and Technology: Wheels and Axles



## Definitions

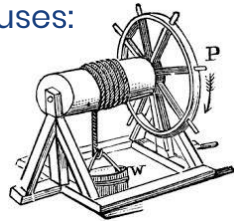
- **Wheel:** a circular disc that spins on the axle.
- **Axle:** a pole that the wheels thread through.
- **Axle holder:** A way of attaching the axle to the body of an object, without preventing it from turning.

Wheels and axles reduce the amount of force required to make an object move, by reducing friction.

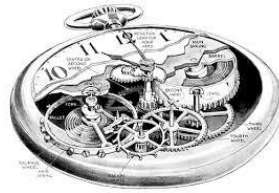


## Uses of wheels and axles

Cars and bicycles are the most obvious everyday items that use wheels and axles, but there are many other uses:



Raising water from a well



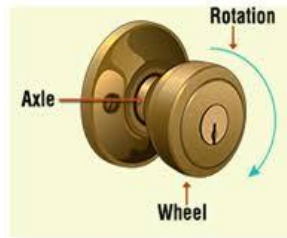
Clock mechanism



Scooter



Wheelbarrow



Door handle



Ferris wheel



Windmill



Roller skates



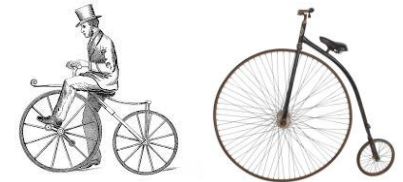
Aeroplane



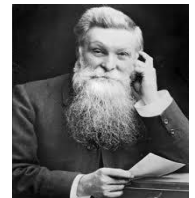
Wheels were invented over 5,000 years ago.



Ancient wheels were solid discs of stone or wood.



Victorian bikes were known as "boneshakers" because of the rigid wheels.



John Boyd Dunlop invented air-filled or pneumatic tyres in 1887.