

Year 2 Mechanisms

(Wheels and axles) Knowledge Mat

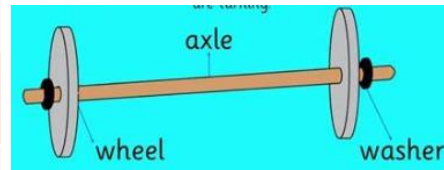
SUBJECT SPECIFIC VOCABULARY

Wheels and axles are mechanisms that help things to move.	
Wheel	Wheels are circular objects that roll on the ground helping vehicles and other objects to easily move.
Axle	a rod on which one or more wheels can rotate, either freely or be fixed to and turn with the axle.
Axle holder	the component through which an axle fits and rotates.
Chassis	the frame or base on which a vehicle is built.
Friction	resistance which is encountered when two things rub together.
Dowel	wooden rods used for making axles to hold wheels.

Examples of wheels in everyday life



WHEELS AND AXLES



Roller skates have four wheels. Often the wheels rotate free from the axles but sometimes they can be attached too.

STICKY VOCABULARY

design/designing	When you plan what something will look like. You will need to think about what materials you will use.
design criteria	The precise checklist that a project must achieve in order to be successful.
make/making	Use a variety of tools and finishing techniques to create a designed product.
evaluating	Once you have finished making your product, you must discuss how well it works in relation to the purpose and design criteria.
purpose	The purpose is why your product has been made. Who would use your product?
product	The item that you are going to design, make and evaluate.

EXAMPLE MECHANISMS

Toy cars and real cars use mechanisms to move. On a toy car the wheel is usually fixed to the axle, which means the wheel and axle will spin. If there is too much friction on the axle it will not move.

