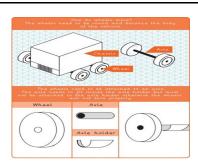
Year 1 DT Wheels and Axles

Key Skills

- A
- 1. Exploring looking at various mechanisms that have moving wheels.
- 2. Labelling a diagram of an axle, wheel and axle holder.
- 3. Problem-solving examining a broken wheel and thinking of how to fix it so that it turns again.
- 4. Designing drawing a model of a vehicle that includes details and fits the agreed design criteria.
- Create a vechicle with moving wheels using a design and by selecting tools that are appropriate.
- 6. Testing the effectiveness of wheels and evaluating.

Key Knowledge

- The wheels need to be attached to the axle.
- The axle needs to fit inside the axle holder but must not attached to the axle holder, otherwise the wheels will not turn.





Respect, Believe, Achieve

Vocab/Key Words

Accurate - neat, correct size shape and pattern with no mistakes.

Axle - a long straight rod which connects to a moving part, such as a wheel.

Axle holder - a part that holds the axle steady.

Chassis - the body of a car.

Fix - to correct something that wasn't working.

Mechanic - a person who can fix or mend vehicles.

Mechanism - parts of an object that move together to make something work.

Model - a practise version of something so you can see how it works, it's usually much smaller.

Test - to find out if something works as it should.

Wheel - a circular object that is fixed to something (like a car or bike) and allows it to move smoothly over the ground.

What I will know/be able to do by the end

- I can explain how a wheel moves.
- I can identify what stops a wheel from moving and fix it.
- I can design my own vehicle and label it using the correct vocabulary.
- I can measure lengths.
- I can make a wheel and axle mechanism.
- I can build a vehicle by following my design, using appropriate tools/materials and by being accurate.
- I can test the effectiveness of my wheels by having a 'whacky race'.

Websites/Signposting/ Connection to a famous person

Watch some soap box car races, can you spot the wheels, axels and axel holders on them?