



## How do axles help wheels to move a

### vehicle?

## Health and Safety

### John Braithwaite

John Braithwaite invented the first steam fire engine.

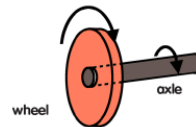


His design used four wheels attached to two axles.

In the 1930s, a fire engine would have had a petrol driven engine. Modern fire engines still have four wheels attached to two axles.

### 1. How do axles help wheels to move a vehicle?

Axles are used to connect the wheels to the main body of the vehicle. If there wasn't an axle the wheels would fall off and the vehicle wouldn't be able to move.



### Future jobs

Engineer, mechanic, car designer



Do's

Hold scissors the correct way .



Don'ts

Run with scissors.

### Key words

**Axel** – a rod that attaches two wheels together.

**Axles**– more than one rod attaching wheels together. (a fire engine has two axles.)

**Wheels** - a circular object that turns

### 2. How do I join the wheels to my vehicle?

There are many different ways to join materials together. Different joining processes are used depending on the materials. We will be joining the wheels to the axle by experimenting with glue, velcro and cellotape .



### 3. The Design Process

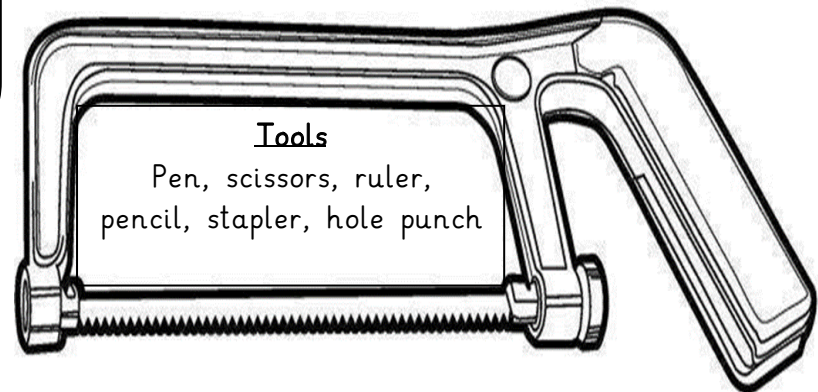
When creating something new the design needs to be fun and engaging as well as quite simple.

What does an emergency vehicle need to have to make it stand out from other vehicles?



### Tools

Pen, scissors, ruler, pencil, stapler, hole punch



FOOD, CLOTHING, A SAFE HOME



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