

Mechanisms

In Year 1 you will design and make a vehicle using wheels and axles



In Year 1 we will:

- 1) Create clearly labelled drawings that illustrate movement.
- 2) Understand that wheels need to be round to rotate and move and must be attached to a rotating axle.
- 3) Understand that an axle moves within an axle holder which is fixed to the vehicle or toy.
- 4) Understand that the frame of a vehicle (chassis) needs to be balanced.
- 5) Adapt mechanisms, when they do not work.
- 6) Improve how our vehicle works after testing it.

Key Vocabulary from Year 1:

Design = to make, draw or write plans for something

Model = a practice version that lets you test out your idea and see how it will look and work

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

Wheel = a circular object that turns round

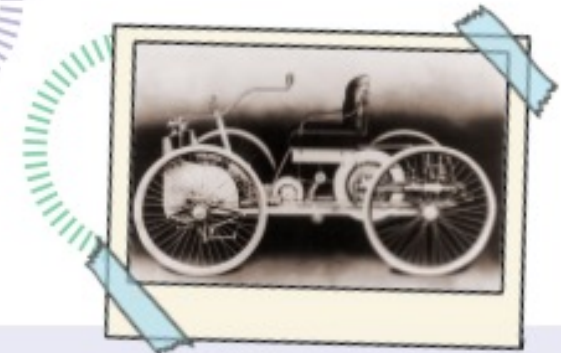
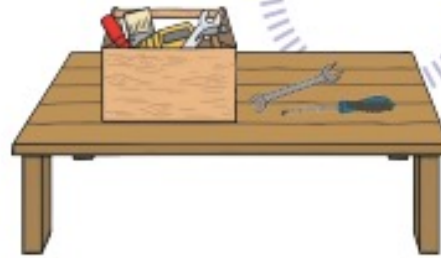
Axle = a long straight rod which connects to a rotating part

Axle holder = the part of a mechanism which holds the axle steady

Chassis = the body of a car

Test = to find out if something works as it should

Henry Ford



Henry Ford was an American engineer. He founded the Ford Motor Company in 1903. He became one of the richest and most famous inventors in the world.

Early Life

- Henry Ford was born on 30th July 1863.
- He was born on his family farm in Michigan. Michigan is in the United States.
- When he was young, he was interested in how things were made. Henry would fix people's broken watches.
- When he was 16, he started working with machines.

Career

- In 1896 Henry was working as a chief engineer.
- He built a horseless carriage called a Quadricycle.
- He sold his first car model called Ford Model T in 1908.
- The Model Ts were very simple cars and all the same colour. Henry Ford said a customer could have any colour car they wanted "so long as it is black."

Achievements

Henry wanted to make his cars more quickly. He developed a new system where each worker would build one part of the car. This was called an assembly line. It was a big success.