

Newton Tony Primary School CE VC

Design and Technology Key Facts

Mechanisms

Year 1

I know that a slider mechanism moves an object from side to side.

I know that bridges and guides are bits of card that restrict the movement of the slider.

I know that mechanisms are a collection of moving parts that work together as a machine to produce movement.

Year 2

I know that for a wheel to move it must be attached to a rotating axle.

I know that an axle moves within an axle holder which is fixed to the vehicle or toy.

I know that the frame of a vehicle (chassis) needs to be balanced.

Year 3

I know that pneumatic systems operate by drawing in, releasing and compressing air.

I know that thumbnail sketches are small drawings to get ideas down on paper quickly.

Year 4

I know that kinetic energy is the energy that something (object/person) has by being in motion.

I know that air resistance is the level of drag on an object as it is forced through the air.

I know that the shape of a moving object will affect how it moves due to air resistance.

Year 5

I know that mechanisms can be used to change one kind of motion into another.

I know how to use sliders, pivots and folds to create paper-based mechanisms.

Year 6

I know that the mechanism in an automata uses a system of cams, axles and followers.

I know that different shaped cams produce different outputs.