

Welton Primary School—DT Knowledge Organiser



Year: 5

Construction

DT

Vocabulary:

Archimedes screw	A machine that carries water up-ward from one level to another. It is believed to have been invented more than 2,000 years ago.
Linear motion	When an object moves in a straight line.
Rotary motion	Is physical motion that happens when an object rotates or spins on an axis.
Axle	Is a rod that runs through a hole in the wheel. The axle can then be attached to a wagon, the body of a car, or other equipment.
Pivot	Is a central point around which something turns.
Authenticity	A product which utilises research and fulfils the design brief without copying other products.
Prototype	Is the first one of your product that you make. It's the one all the others that you might make in a factory are based on.
Axis	An axis is an imaginary line an object turns around.

Design Brief:

In ancient Greece, because of a rapid increase in urban population, settlements were forced to transport water through aqueducts, to store water in cisterns and dams, and to distribute it to the people through networks. The *Archimedes screw*, a machine for raising water, was invented by the ancient Greek scientist Archimedes for removing water from the hold of a large ship.

You have been tasked by Eureka! to create a model mechanism that will move water from one place to another? You should develop a clear sequence of how the materials and tools should be

STAR Evaluation:

Key Figure:

