# Year 3

# Summer 2 Mechanisms

# Born

287 BC-212 BC

In Syracuse, Sicily

## Legacy

Many of his inventions and discoveries from over 2000 years ago are still in use today.

Archimedes Lever



# Well known for

He was an astronomer, scientist, mathematician and inventor, as well as an engineer.

# Early Life

His father was Phidius, also an astronomer. When Archimedes was about 10 years old, he left home to study in Alexandria, Egypt.

# Facts

He studied under a mathematician called Euclid. He was killed during a Roman siege, even though they were told not to kill him.

## Year 3: Mechanisms

How can you do a lot of work with little effort?



## Core content:

Investigate various linkages and levers. Design and make a linkages and levers product. Select and use a variety of modelling materials.

#### Technical vocabulary:

Lever — a rigid body that has a fulcrum along tits length.



Load — the weight of an object or objects == being moved.



Effort — the force applied to make something move.



Fulcrum — the point where a lever pivots.



Linkage — a series of connected levers and pivots.



Mechanism — a system of parts working together in a machine.



Force — pushes or pulls, measured in Newtons.



#### Connections:

Archimedes (287BC – 212BC)

