

Year 3 – Autumn 2	DT
Topic:	Tools and Pulley Systems
Links to other year groups: Year 5 pulleys and levers. Year 8 Mechanical devices.	

Key Vocabulary & Skills:

push - a force placed on a person or object in order to be moved out of the way

pull - a force placed on a person or object in order to be moved out of the way

load - a heavy or bulky item to be carried or lifted

system - a set of mechanisms working together

gravity - a force that pulls a mass towards the centre of the earth

friction - two surfaces that rub in opposite directions

Real World Examples:



Constructional Diagrams & Key Info:

Wire coat hanger
Bucket
Cotton reel



Important People:

Greek mathematician **Archimedes** invented the pulley. He invented a system of pulleys to move a ship on dry land.

Pulleys in everyday life:



Lesson Sequence:

1. To be aware of the use of pulleys in everyday life.
2. To design a simple pulley and frame
3. Assemble, join and combine materials using a variety of methods.
4. Continue to make frames and add pulley systems
5. Discuss the process of constructing the pulley and identify any modifications that may have been made during this