

YEAR 5/6  
SPRING

# Design Technology

## MECHANISMS



### WHAT SHOULD I ALREADY KNOW?

- I know how levers and linkages work.
- I know how to select appropriate tools.
- I know how about a range of different materials and can identify why certain materials are chosen for certain jobs.

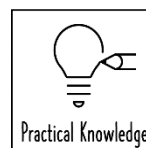
### STICKY KNOWLEDGE

- Pulleys can be used to make a small force lift a larger load.
- Gears can be used to change the speed, force or direction of motion.
- If you connect two gears together, and the first gear is larger than the second, the second gear will turn much faster than the first; increasing the speed of motion.

### VOCABULARY

|          |   |
|----------|---|
| Force    | An interaction that, when unopposed, will change the motion of an object. |
| Gear     | A wheel with teeth around its circumference.                              |
| Pulley   | A grooved wheel over which a drive belt can run.                          |
| Rotation | The action of rotating about an axis or centre.                           |

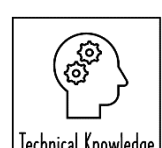
### WEAVING CONCEPTS



Practical Knowledge



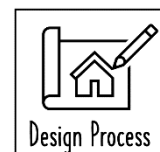
Design Inspiration



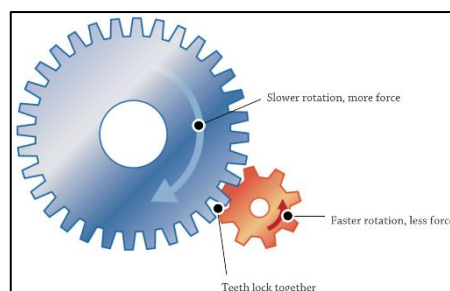
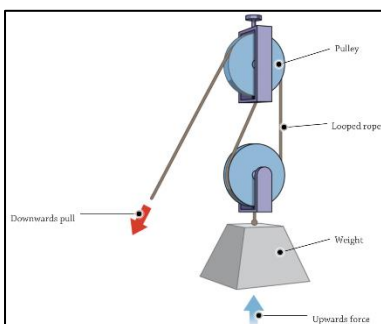
Technical Knowledge



Health & Safety



Design Process



Clocks and watches use a system of gears to move the different hands at the correct speed.