



Science

Force

Marvellous Mechanisms



twinkl



Aim

- To explore mechanisms.

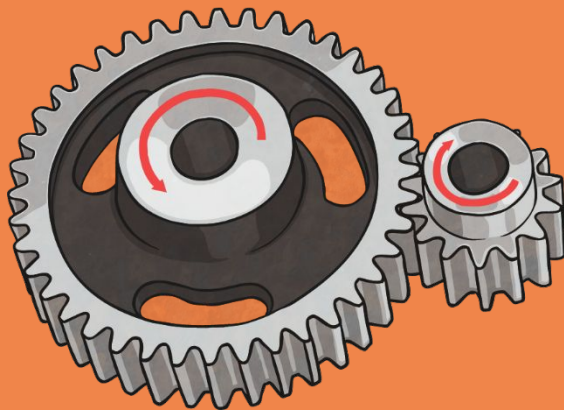
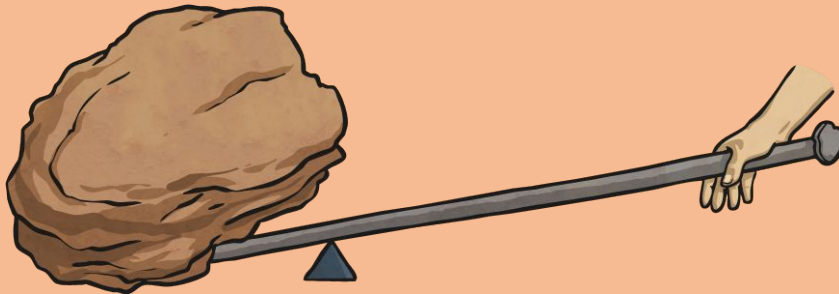
Success Criteria

- I can explain how different mechanisms work.
- I can investigate a simple mechanisms.

Talk about It



Discuss your ideas with a partner.



What Are Mechanisms?



Let's take a closer look at levers, pulleys and gears.



What Are Mechanisms?



Cut up facts on the
Mechanisms Fact

As you turn them over,
make a note of the key
information in the
correct section of the
Jigsaw Sheet.

mechanisms Jigsaw

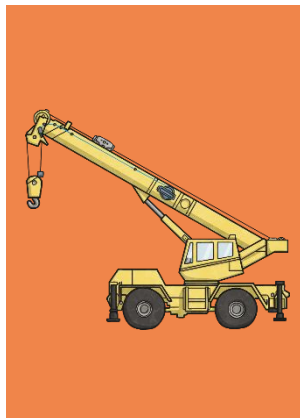
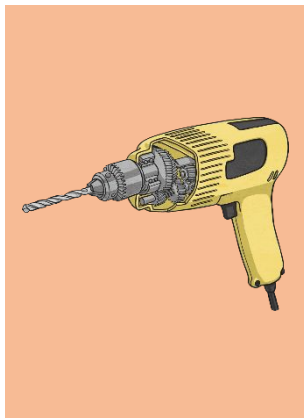
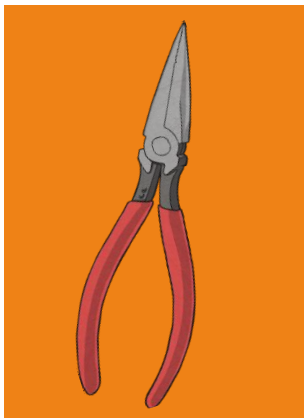
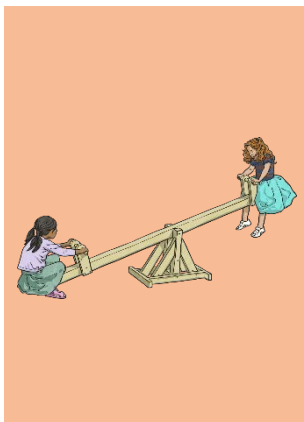
Pulleys

Science | Year 5 | Forces | Marvelous Mechanisms | Lesson 6

Identifying Mechanisms



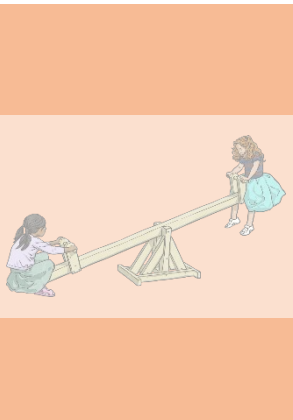
Can you identify whether these objects use levers, pulleys or gears?



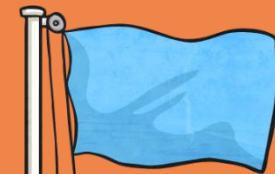
Identifying Mechanisms



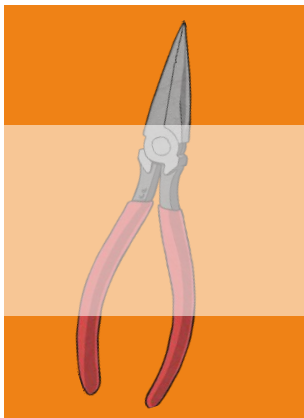
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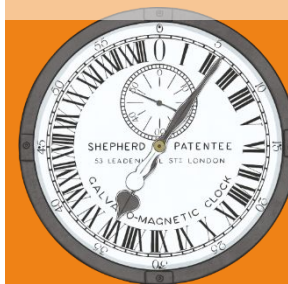
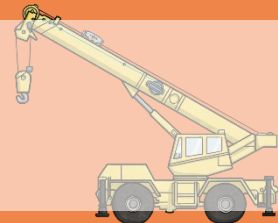
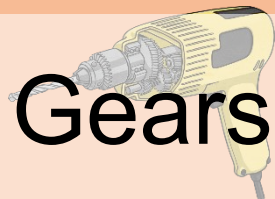
Levers



Pulleys



Gears



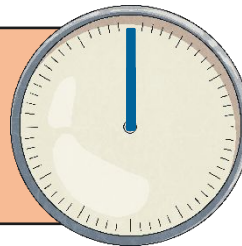
Cracking Contraptions

Look at the mechanisms inside a watch.

Which mechanisms can you see?



The gears turn to move the hands around the clock face.



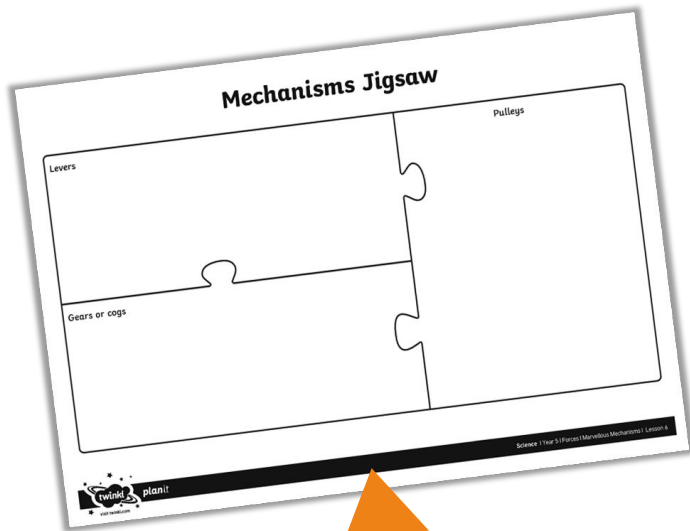
Cracking Contraptions



Which mechanism do you think might be used in a bike brake?

Which mechanism do you think might be used in a bike brake?

Mechanisms



Before moving on, watch the 2 BBC teach videos and add any interesting facts to your jigsaw sheet.

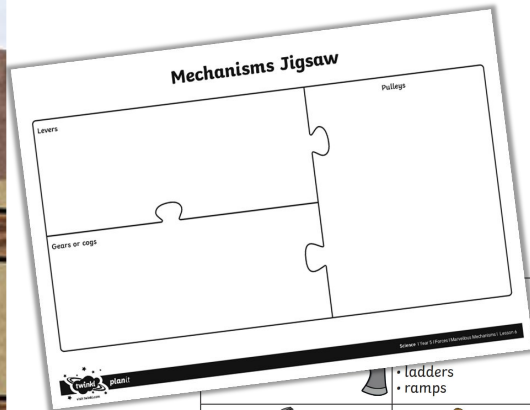
Pulleys video

https://www.youtube.com/watch?v=10sXlsc3ljo&feature=emb_title

Gears video

https://www.youtube.com/watch?list=PLcvEcrsF_9zKmKwgEpdvjQyGvSpwzQRqX&v=cShBlYP6uuo&feature=emb_logo

Mechanisms Presentation



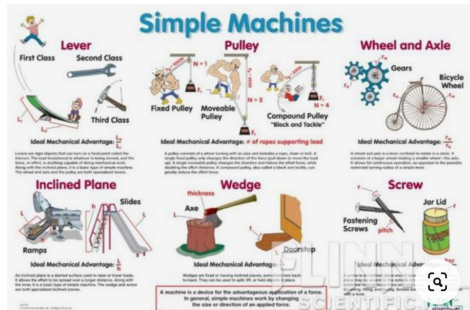
	<ul style="list-style-type: none"> • ladders • ramps 	<ul style="list-style-type: none"> • cranes • wells
<ul style="list-style-type: none"> • axes • staples 	<ul style="list-style-type: none"> • nails • doorstops 	<ul style="list-style-type: none"> • see-saws • oars • wheelbarrows • scissors • fishing rods
		<ul style="list-style-type: none"> • jar lids • taps • drills • end of lightbulbs

Now use everything that you have learnt to make a presentation about Simple Machines such as gears, pulleys and levers.

Presentation Ideas:

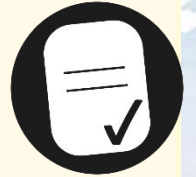
- A PowerPoint presentation
- A poster
- A vlog style report

There is a resource sheet with images that might be helpful.



An example poster.

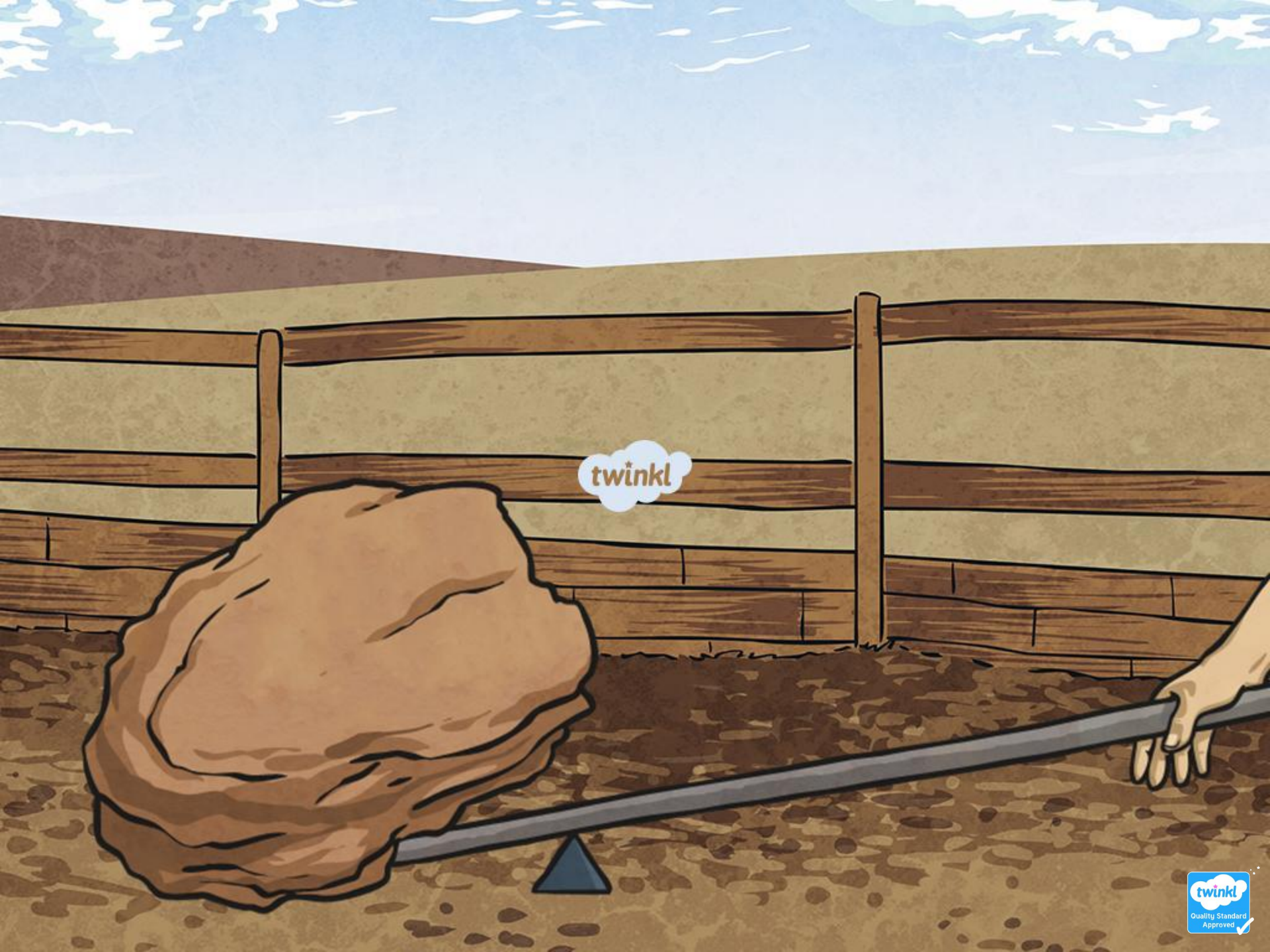
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