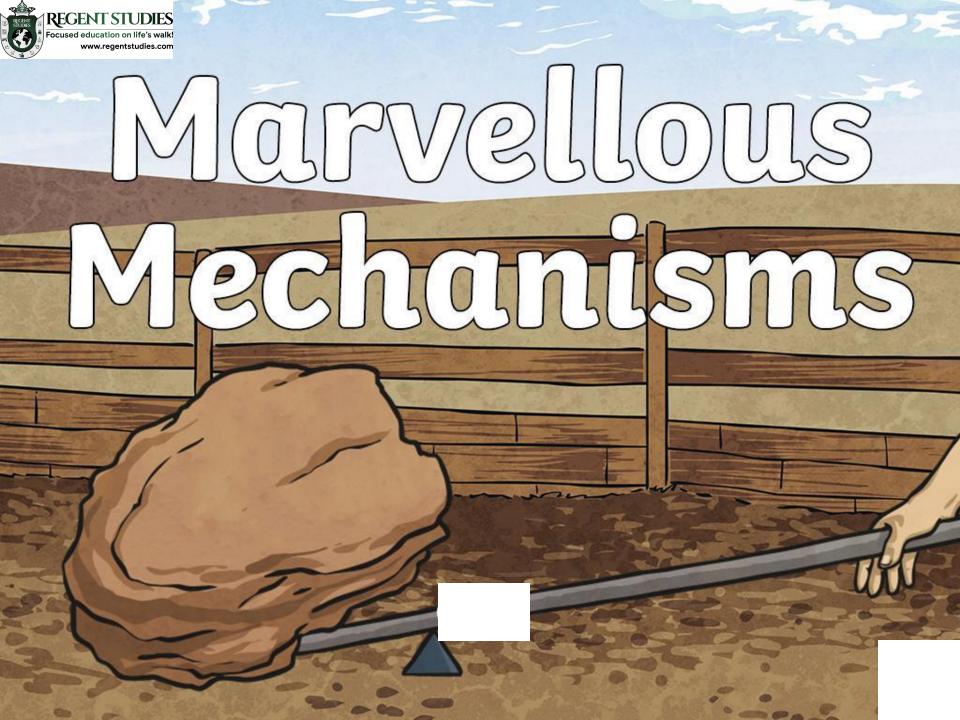


# Science

Forces

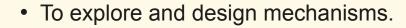
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# Aim



# **Success Criteria**

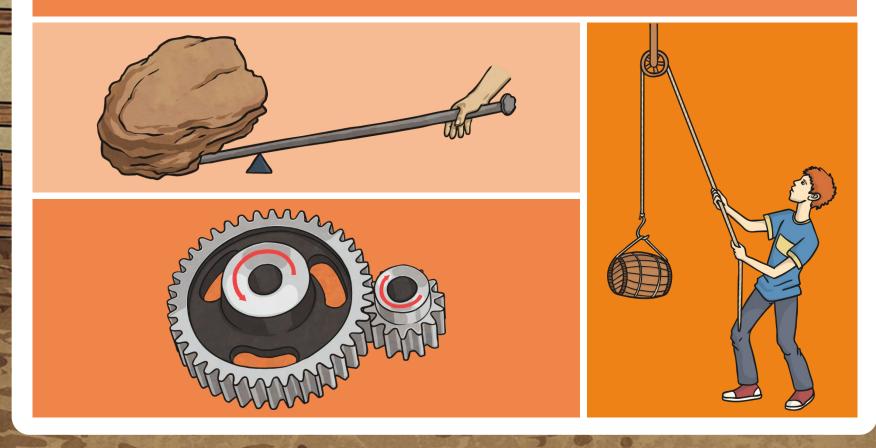
- I can explain how different mechanisms work.
- I can investigate a simple mechanisms.
- I can design my own mechanism for a given purpose.



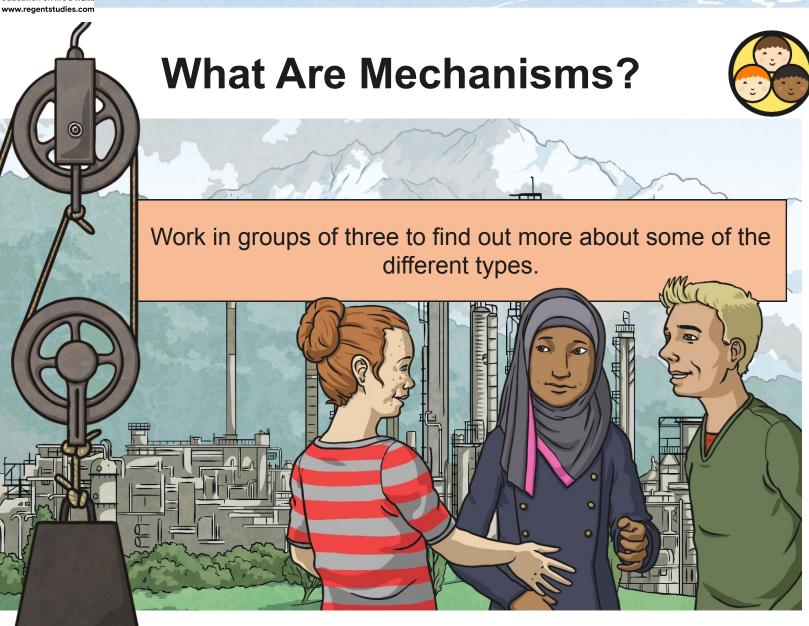
#### Talk about It



Discuss your ideas with a partner.







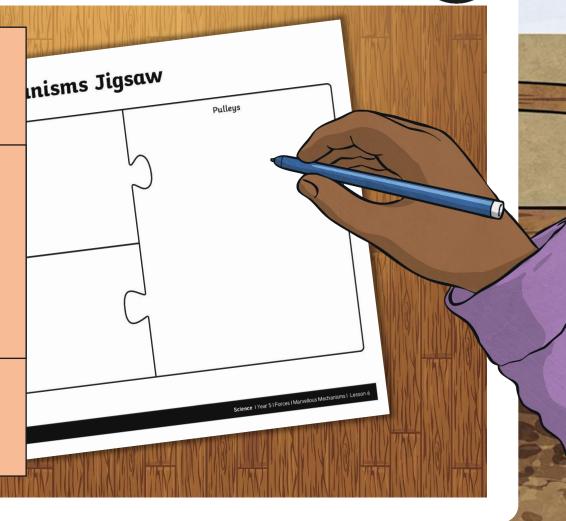


# What Are Mechanisms?

Each member of your group should look for jigsaw pieces about a

Then, work with your other group members to share what you have found out with your group members and fill in the rest of your sheet.

learned about on your Mechanisms Jigsaw Activity Sheet.





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





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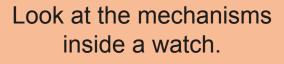


Can you identify whether these objects use levers, pulleys or gears?





## **Cracking Contraptions**



Which mechanisms can you see?



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



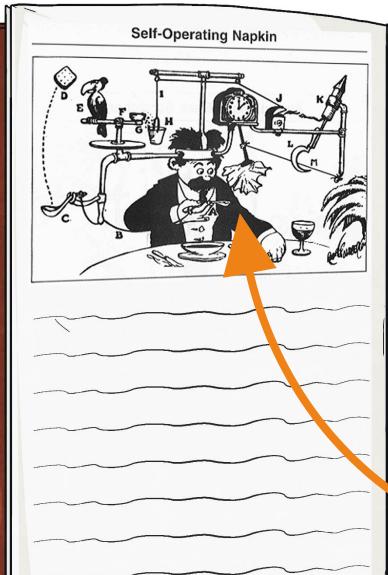
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#### **Cracking Contraptions**



Some designers and cartoonists have fun drawing and creating crazy machines that use lots of mechanisms to achieve a simple task.

This is an invention drawn by Rube Goldberg, a famous cartoonist.

He has designed a 'Self Operating Napkin', so that when the man in the picture lifts his spoon, it sets off a series of mechanisms that eventually work together to lift the napkin to wipe his mouth!



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### **Cracking Contraptions**

There are lots of popular games where players set off a series of different mechanisms that work together to achieve an objective.





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#### **Marvellous Machines**

#### **Marvellous Machines**

Design your marvellous machine in the box below.

Choose<sup>it</sup>as your thth to becomed design a machine to achieve that design a machine to achieve that aim awo HQWivik ventjeur QwWoWM Marvellous Machine Activity Marvellous Machine Activity Your task is to design a machine Your task is to design a machine Makat Swift Benieve allowe Hisaim, esgo amachinismative Hisaims devensor pulleys evere gegus to orghieve its aim aim.

| Water | а | Nlant  |
|-------|---|--------|
|       | Ч | Piant. |

What is your machine's aim?

Machine Name:

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#### Time to Evaluate

**Share** your Marvellous Machine with your partner.

**Explain** the aim of your machine, and how it works. Point out the different mechanisms your machine uses.

Then **listen** to your partner as they explain their machine.

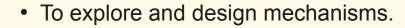
**Evaluate** your partner's work on their Marvellous Machines Activity Sheet. What do you like about their machine? Is there anything you would change or improve? Why?



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#### Aim



# **Success Criteria**

- I can explain how different mechanisms work.
- I can investigate a simple mechanisms.
- I can design my own mechanism for a given purpose.

