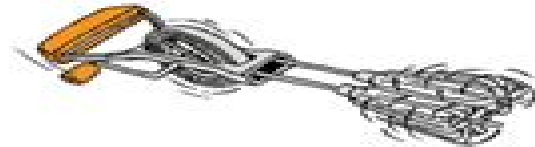


TOPIC 1: Structures Mechanical systems and Control

Activity 1: Levers, linkages and gears



You will also revise what you learnt earlier this year about how gear systems can give a mechanical advantage or a speed advantage. Then you will learn about a type of gear called a bevel gear. Bevel gears change the direction of rotation.

It is important that you understand mechanical advantage very well, because you will be doing calculations about mechanical advantage.

Machines at home

Figures 4 to 7 show machines that you might have at home. Write down what each of these machines is used for, and how they make it easier to do the task.

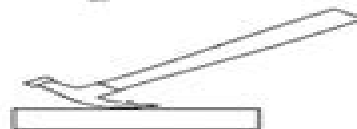
1. A bottle opener



2. A pair of scissors



3. A hammer



4. A pair of pliers



Levers allow you to change the direction of movement and the amount of input force that is needed for the output.

change the direction of movement, the size of amount of input force that is needed for the output

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Roman Wölfel



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