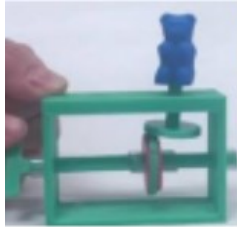
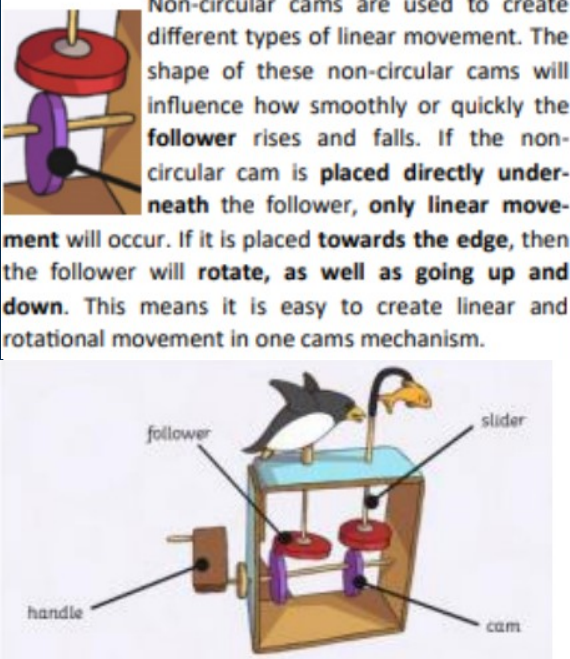

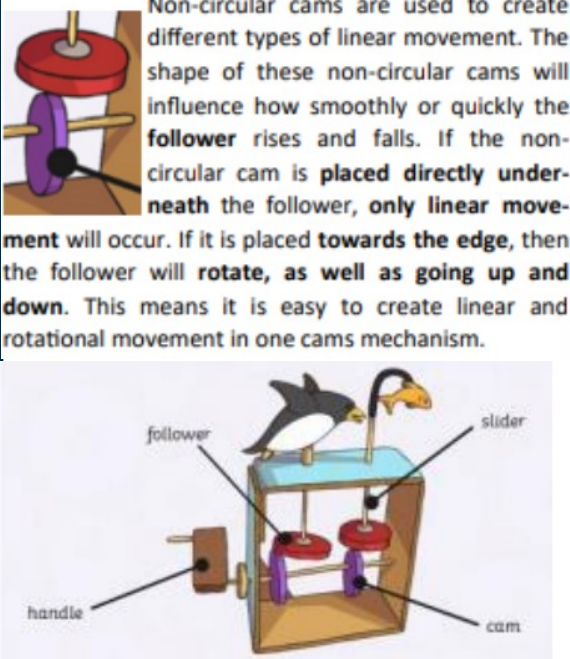


Egyptians — Design and Technology

Vocabulary		Previous Knowledge			
Word	Definition	In KS1 and Year 3 and 4 you have: <ul style="list-style-type: none"> Evaluate your own and existing products Research and develop design criteria to plan your own product Select and use a wider range of materials 			
Mechanisms	An assembly of moving parts which perform a complete functional motion	Design and Technology Key Concepts			
Cam	A slide or roller attached to a rotating shaft to give a particular type of motion	design	research	Mechanism	Textiles
Slider	Part of the cam mechanism which is attached to the follower	prototype	Functionality	structures	Reflect
Follower	Mechanism in contact with the cam	Key concepts <ul style="list-style-type: none"> A cam mechanism is made of three components: a cam, slider and a follower The mechanism causes components to move. Cams can be made from metal, plastic or wood A cam mechanism is made of a cam, axel, follower, slider and handle Cams come in different shapes which create different motions Cam mechanisms create linear and rotary movements 			
Linear movement	Moving in a straight line, up or down	When a circular cam is placed at the edge of another circular cam at 90° it will rotate the movement through 90°, commonly used in simple spinning toys. 			
Rotary movement	Turning around in a circle				
Axel	A rod or spindle through the cam	Non-circular cams are used to create different types of linear movement. The shape of these non-circular cams will influence how smoothly or quickly the follower rises and falls. If the non-circular cam is placed directly underneath the follower, only linear movement will occur. If it is placed towards the edge , then the follower will rotate , as well as going up and down. This means it is easy to create linear and rotational movement in one cam's mechanism.			

Spellings: attach, amateur, develop, equip, equipped, equipment, system, sufficient

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