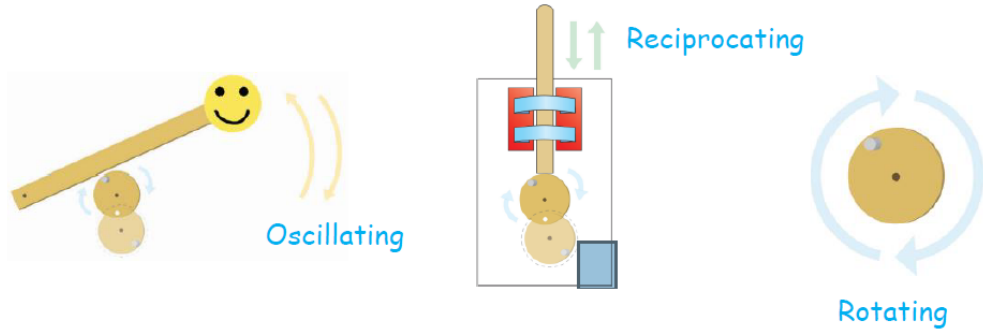


Year 5	DT	Mechanical Systems: <u>Cams</u>	<i>Knowledge Organiser</i>
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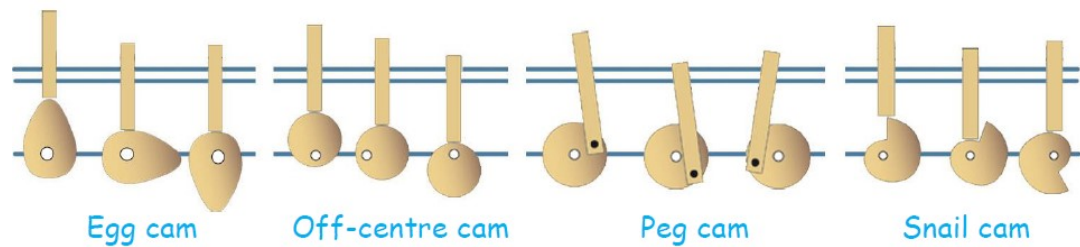
Examples of products using cams



Types of movement



Types of cams



Health and Safety

Pay close attention when using sharp tools

Stop what you're doing as soon as the teacher or your partner says "stop".

Vocabulary	
cam	a mechanism that changes one sort of movement to another. Cams can be an off-centre wheel or a specially shaped wheel
follower	the device that follows the movement of the cam: a lever or a slider
axle	a bar or shaft on which a wheel or wheels turn
crank	a type of handle used to turn an axle in a circle.
housing	the frame built to contain a mechanical system
rotary motion	movement that goes round
oscillating motion	swinging back and forth, as in a lever.
reciprocating motion	moving forward and back in a line, as in a slider.
mechanical system	elements that interact to convert input movement to output movement
input movement	the type of movement put into the system
process	the way the movement is changed in the system
output movement	the type of movement produced by the system
user	the person in mind when designing a product
purpose	the reason for making a product
design criteria	the precise goals that a project must achieve in order to be successful
design brief	the statement a client gives to a designer outlining what they want their product to be like