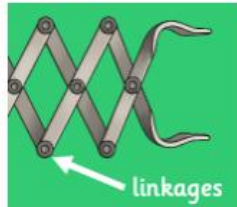
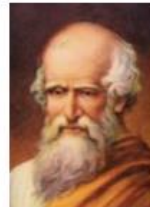


levers



linkages



Archimedes



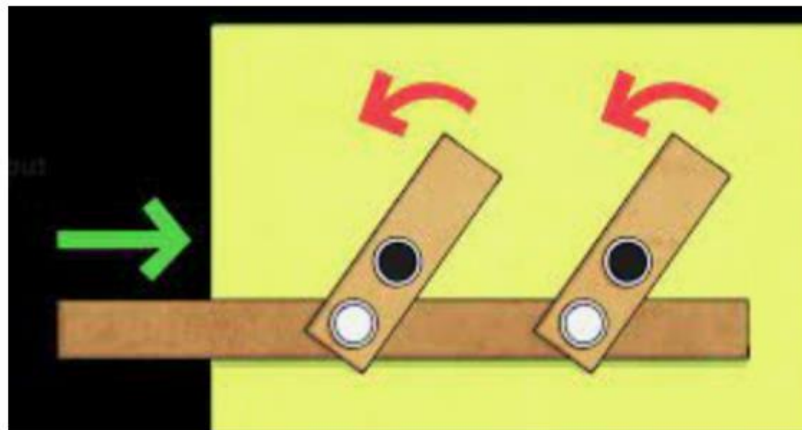
shadoof



linear motion



mechanism



Levers and Linkages



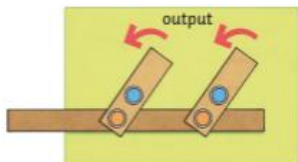
reciprocating motion



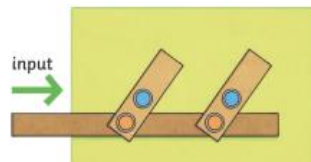
fixed



rotary motion



output



input



motion


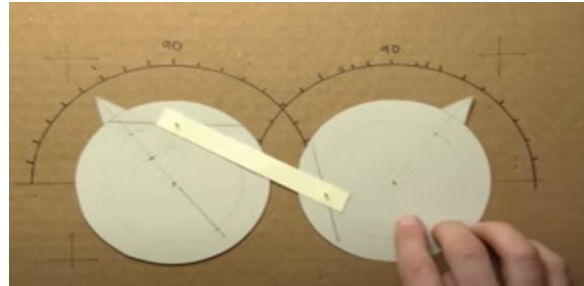


pivot



oscillating motion

DT – Levers and Linkages: Y4 Topic Vocabulary Mat

Subject Specific Vocabulary		Relevant Pictures	Exciting Books/Websites
levers	The simplest type of mechanism. A lever is a stiff bar which moves around a pivot.		 Watch the link below to make your own levers and linkages: https://www.youtube.com/watch?v=0MYF8YCf2jQ Learn more about mechanisms by exploring this link below: https://www.bbc.co.uk/bitesize/articles/z247wnb
linkages	The part of the mechanism used to join one or more levers to produce the type of movement required.		
motion	The action or process of moving or being moved.		
linear motion	Moving in a straight line, e.g. a paper trimmer.		
reciprocating motion	Moving forwards and backwards in a straight line, e.g. cutting with a saw.		
rotary motion	Turning round in a circle, e.g. a wheel.	What I've learnt already	Key Knowledge
oscillating motion	Swinging from side to side in an arc, e.g. a pendulum in a clock.	<p>Y3:</p> <ul style="list-style-type: none">The 'input' is what goes into a system and 'output' is what comes out.A Pneumatic system is one that works using gases (air).A Hydraulic system is one that works using liquids (water).A point about which a lever turns is called a pivot.Pressure is the force used on an object or surface. <p>Y2:</p> <ul style="list-style-type: none">A mechanism is a device used to create movement in a product and wheels and axles are examples of this. <p>Y1:</p> <p>Different mechanisms produce different types of movement.</p>	<ul style="list-style-type: none">Levers and linkages are mechanisms and devices that are used to create movement in a product.Humans have used levers since the stone age.There are four types of lever: linear, reciprocating, rotary, oscillating.A lever is a rigid bar which moves around a pivot; they are used in many everyday products.movement required are used as 'linkage'; this term is also used to describe the lever and linkage mechanism as a whole.A paper fastener that joins card strips together is a 'loose pivot'.A paper fastener that joins card strips to the backing card is a 'fixed pivot'.A system is a set of related parts or components used to create an outcome.Systems have an input, process and an output.Archimedes (ancient Greek mathematician) was the first to describe how levers multiply force.A shadoof is a type of lever that was used in ancient Egypt.
mechanism	Something that uses related components which act together to create a movement.		