

KS1 D.T: MECHANISMS KNOWLEDGE ORGANISER

Overview

Sliders and Levers

Mechanisms are the parts that make something work.

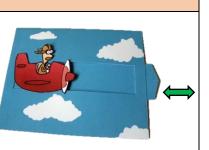
-Mechanisms are all around us! Most objects that help us in our lives are made up of different mechanisms.

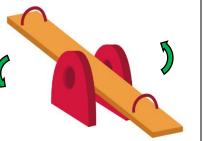
Sliders and Levers are mechanisms that make things move.

-Sliders help to move things from side to side and up and down.

Levers are slightly more complex. They use a fulcrum (a fixed point around which the lever can pivot) to make things move in arc (curve).

Example Mechanisms			
	Levers	-A <u>seesaw</u> is one example of a lever	
1 and a		mechanism. Seesaws are a narrow board	
		supported by a <u>fulcrum in the middle point</u>	
	Seesaw	between the two ends. As one end goes up,	
		the other comes down!	
+ Lever + Wedge		- <u>Scissors</u> are another example of a lever	
		mechanism. Scissors have <u>two levers fixed –</u>	
	Scissors	[handles are squeezed at one end of the	
		levers, the blades come together at the	
*Lever		other end.	
Hide-	Sliders		
		-Some children's books contain slider	
	Children's Books	mechanisms. As the slider is pushed/ pulled,	
		characters/objects move up and down or	
		side to side in the book.	
		- <u>Drawers</u> also work on a slider mechanism.	
	Drawers	As you pull/push the handle, drawers slide	
		along a <u>slider track</u> inside the cabinet.	







-Effective sliders and levers should move smoothly -Effective sliders and levers should create a movement that is appropriate to the subject matter. -You need to think about who your product is for - what is its purpose and who is going to use it?

Sliders

-Consider where you will place the slot, and how long it will be. This will change how far your slider can slide! You also need to consider where to put your guide, so that the slider only moves where you want it to.

Levers

-Consider where you will position the fulcrum. The further it is from the object, the more that the subject at the end of your lever can move!

Making & Evaluating

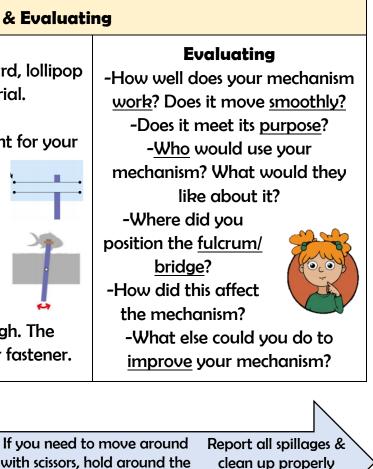
Makina

-Sliders and levers can be made using card, lollipop sticks, or another thin, firm material.

Sliders

-Use a hole punch to as the starting point for your slot. Instead of a slot, you could attach a

card strip to the back of your product. -Guides can be made using strips of card fixed with masking tape.



Levers

-To create the hole for the fulcrum. place the card backdrop over a piece of

Blu Tack and pressing a pencil through. The fulcrum can be attached using a paper fastener.

Health and Safety

Follow the teacher's Make sure that you are cutting instructions carefully.

wearing the correct equipment for tasks. closed blades, facing down.

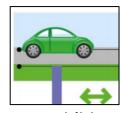
-Remove any	-
jewellery and tie back	
long hair.	

-Wear an apron and roll up your sleeves.

-Walk safely and calmly around the classroom/ workshop.

Keep your work area and floor area clear – keep your belongings well clear.







Kev Vocabularv

Mechanism

Slider

Slot

Lever

Fulcrum

Pivot

Guide/Bridge

Design

Make

Evaluate

after yourself.