

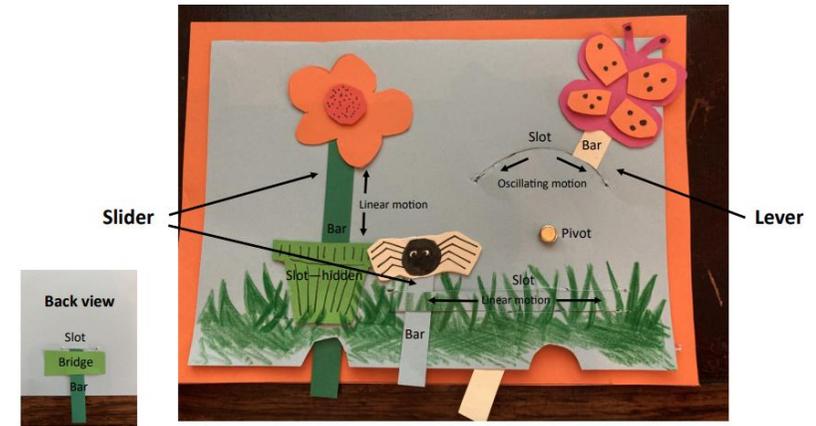
# Firecrests



# Mechanisms

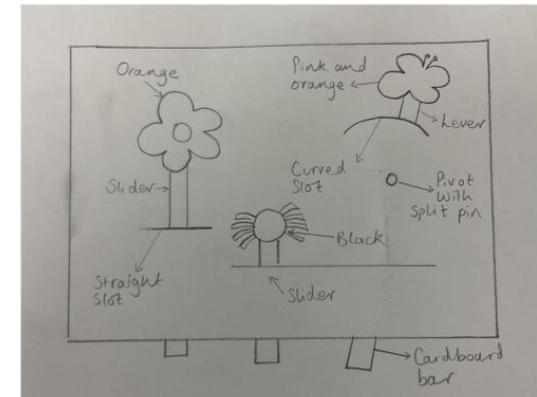
## Moving Pictures

### Labelled Diagram



Key Vocabulary	Definition
<b>appearance</b>	What is the object going to look like?
<b>bar</b>	A straight, rigid object.
<b>bridge</b>	A structure that passes over a gap.
<b>design</b>	To make a plan for making something.
<b>force/effort</b>	The strength or power exerted on an object to try and move it.
<b>function</b>	What is the object for?
<b>lever</b>	A rigid bar that pivots around one point and is used to move an object using a force.
<b>linear motion</b>	Motion in a straight line.
<b>load</b>	The quantity that can be carried at one time.
<b>materials</b>	The things you will need to make something.
<b>mechanism</b>	An assembly of moving parts performing a complete function.
<b>mock up</b>	An example, usually made from cheaper materials than the finished version.
<b>motion</b>	The action of moving from one place to another.
<b>oscillating motion</b>	A curved, back and forth motion.
<b>pivot or fulcrum</b>	The support or rest point on which a lever turns in moving something.
<b>properties</b>	Things we can see, feel or measure when we study, or look closely at a material.
<b>shaduf</b>	A device used in Egypt and other Eastern countries for raising water, especially for irrigation, consisting of a long suspended rod with a bucket at one end and a weight at the other.
<b>slider</b>	Something that slides.
<b>slot</b>	Slot, a cut out through which a slider can move.
<b>split pin</b>	a metal pin made by bending double a wire, so that it can be passed through a hole in a nut, shaft, etc, to secure another part by bending back the ends of the wire.
<b>user</b>	Who is going to use the object?

### Example Design



### Making a slider that moves up and down

1. Cut a slot and insert a short bar that moves up and down
2. Attach an object at the top of the bar
3. Stick on an object that covers up the slot.

