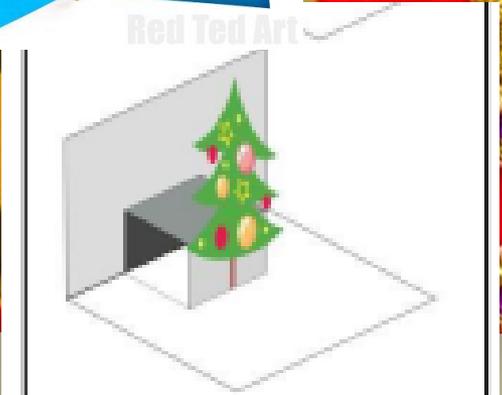


# Year 3 - DT Knowledge Organiser - Mechanisms (Pop up Christmas cards)



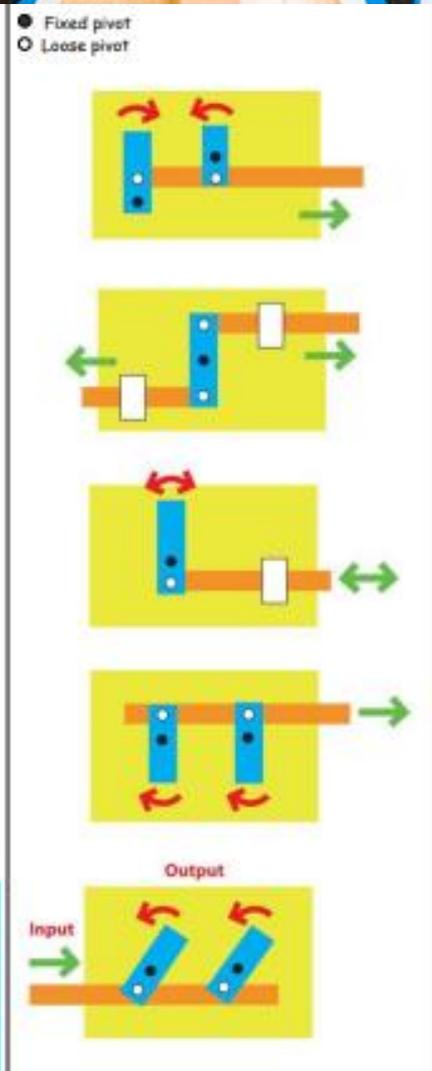
Red Ted Art



Surprise  
Slider  
Card



Design



Make

We will learn how to:

- select appropriate tools/techniques.
- alter my end product after checking to make it better.
- begin to try new/different ideas.
- use simple lever and linkages to create movement
- begin to make strong structures.



Evaluate

## Key Vocabulary

Design	To use existing products to plan, draw and label our own diagrams for what we are going to make.
Evaluate	To say what was successful and what we could improve in our products.
Mechanism	A device used to create movement in a product
Lever	A rigid bar which moves around a pivot. Levers are used in many everyday products. We will use card strips for levers.
Linkage	The card strips joining one or more levers to produce the type of movement required.
Loose pivot	A paper fastener that joins card strips together.
Fixed pivot	A paper fastener that joins card strips to the backing card.

Lever and linkage mechanisms usually produce oscillating or reciprocating movement:



Linear - in a straight line



Reciprocating - backwards and forwards in a straight line e.g. a slider



Rotary - round and round e.g. a wheel, cam, pulley, gear wheel



Oscillating - backwards and forwards in an arc e.g. a lever

