



What ? (Key Vocab)

Spelling	Definition
Mechanical structure	Something which uses related components to make a movement
motion	Movement from one place to another
pivot	To turn on a central point
Input	The movement of the main lever
Output	The movement made by smaller levers
Lever	A stiff bar which moves around a pivot
Linkage	The part of the mechanism used to join one or more levers
Loose pivot	Joins levers together
Fixed pivot	Joins levers to the overall product

Possible experiences

Studying a variety of moving books  
 Study inputs and outputs of 'real life' objects (folders, digger toys)

Prior Knowledge

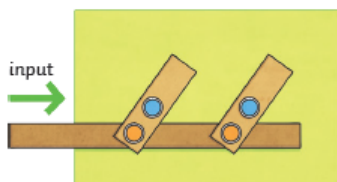
Using sketch books to research designs  
 Measuring using rulers  
 Beginning to annotate your ideas  
 Following a plan  
 Choosing materials from options  
 Evaluate your product

Diagrams and Symbols

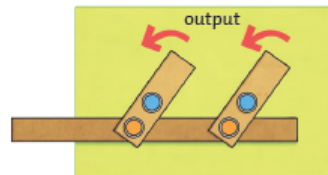
Exploring Mechanical Systems

Many mechanisms take one type of **input motion**, and **output** it as a different type of **motion**.  
 In lever and linkage mechanisms:

Input - The movement of the main lever by the user.

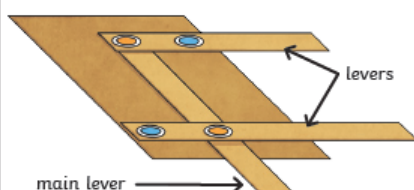


Output - The movement that is made by the smaller levers.



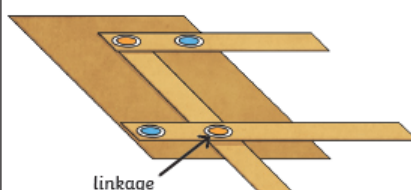
Lever

The simplest type of **mechanism**. A lever is a stiff bar which moves around a **pivot**.



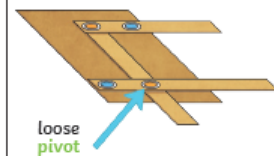
Linkage

The part of the **mechanism** used to join one or more levers to produce the type of movement required.



Loose Pivot

Joins the levers together.



Fixed Pivot

Joins the levers to the overall object.

