

Thundersley Primary School - Levers and Linkages

Design Brief: To design, make and evaluate a _____ (product) for _____ (purpose)

Design and Technology– Levers and Linkages

Year 4

Autumn / Spring / Summer

Design Brief

A design is a plan or drawing of something that you intend to make

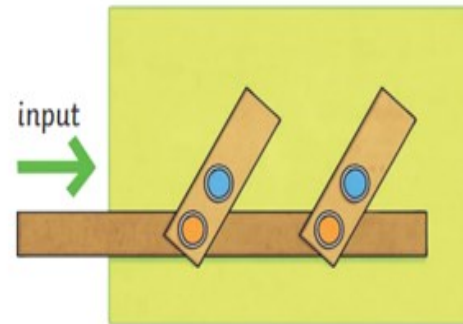
- ⇒ Explore examples of levers and linkages and how they work
- ⇒ Explore how to create a lever.
- ⇒ Decide which lever will be the most suitable for your design.
- ⇒ Create an annotated plan for your frame structure.
- ⇒ Follow your plan to create your final product.

Evaluate

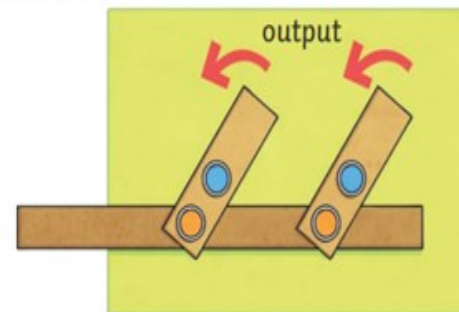
Reflect and evaluate your end product against the design criteria

- ⇒ I can talk about my design and explain what worked well and what I might consider changing if I was to do the project again.

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



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



Key Vocabulary

To be able to understand the meaning of...

- * Lever
- * Linkage
- * Input
- * Process
- * Output
- * Mechanism
- * Motion
- * pivot

Thundersley Primary School - Creative Topic Parameters

Design Brief: To design, make and evaluate a _____ (product) for _____ (purpose)

Design and Technology - Simple Circuits

Year 4

Autumn / Spring / Summer

Design Brief

A design is a plan or drawing of something that you intend to make

- ⇒ Discuss, investigate and, where practical, disassemble different examples of battery-powered products.
- ⇒ Investigate examples of switches, including those which are commercially available, which work in different ways e.g. push-to-make, push-to-break, toggle switch
- ⇒ Design your own product, taking into account the design brief and purpose
- ⇒ Create a plan and list of equipment that you will need
- ⇒ Follow your plan to make your product

Key Vocabulary

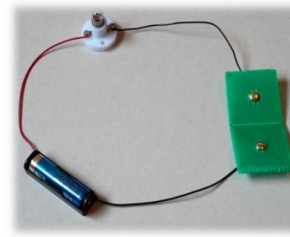
To be able to understand the meaning of..

- * Circuit / Series circuit
- * Conductor
- * Insulator
- * Push to make / break switch
- * Output device
- * Input device
- * Battery
- * Bulb
- * Wire
- * Crocodile clip

Evaluate

Reflect and evaluate your end product against the design criteria

- ⇒ I can talk about my design and explain what worked well and what I might consider changing if I was to do the project again.



Thundersley Primary School - Creative Topic Parameters

Design Brief: To explore the cuisine of a different country (TBD) and develop the skills necessary to prepare and cook a popular dish.

Design and Technology - Healthy and varied diet

Year 4

Autumn / Spring / Summer

Design Brief

A design is a plan or drawing of something that you

- ⇒ Explore dishes popular in (country TBD)
- ⇒ Taste and evaluate
- ⇒ Take part in a Roots to Food cookery lesson, learning the skills necessary to prepare and cook a dish from ...



Key Vocabulary

To be able to understand the meaning of...

- * name of products / ingredients used
- * names of equipment / utensils
- * Texture
- * Taste (sweet/sour/greasy/spicy)
- * Appearance
- * Preference

Evaluate

Reflect upon the

- ⇒ I can analyse the appearance, smell, taste/flavour and texture of food common in... (country TBD)

Analysing existing products

Filling	Appearance	Smell	Flavour/ Taste	Texture	Dislike	Neither	Like
					☹️	😊	😄
1							
2							
3							
4							
Word bank	Colourful Dark/pale Greasy Moist	Fruity Meaty Smoky Oniony Garlicky Fishy	Salty Herby Spicy Fishy Smoky	Crispy Crunchy Soft Chewy Slicky Smooth Hard			