

# Thundersley Primary School - Creative Topic Parameters

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

Design and Technology - Frame structures

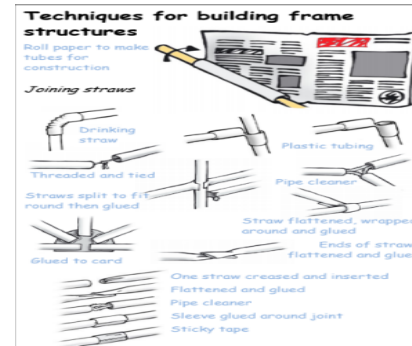
Year 5

Autumn / Spring / Summer

## Design Brief

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

- ⇒ Explore examples of frame structures within the local area (Southend Pier) and learn about the original designer of the Pier James Brunlees and compare the original buildings found at the end of the pier to those that can be seen there today.
- ⇒ Explore the tools and techniques that are used to make frame structures.
- ⇒ Create an annotated plan for your frame structure, listing materials and tools that you will need.
- ⇒ Accurately measure, mark out and cut your materials, ensuring that all tools and equipment are handled safely.
- ⇒ Ensure that your product is aesthetically pleasing.



## Key Vocabulary

To be able to understand the meaning of...

- \* Frame Structure
- \* Triangulation
- \* Reinforce
- \* Prototype
- \* Functionality
- \* Aesthetics

## Evaluate

Reflect and evaluate your end product against the design criteria

- ⇒ I can talk about my design and plan and evaluate it against the design criteria. I can consider the views of others to improve my work.

# Thundersley Primary School - Creative Topic Parameters

Design Brief: To design, make and evaluate a moving toy (product) for \_\_\_\_\_ (purpose—TBD)

Design and Technology - Mechanisms  
(Cams)

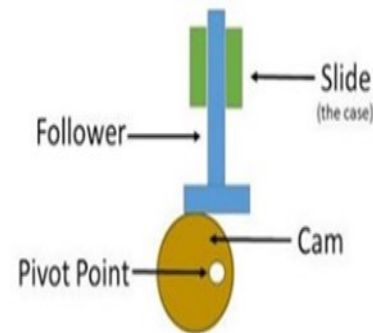
Year 5

Autumn / Spring / Summer

## Design Brief

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

- ⇒ Investigate toys with moving cam mechanisms.
- ⇒ Investigate different types of cam mechanisms.
- ⇒ Investigate ways of strengthening structures for a moving toy.
- ⇒ Design a moving toy with a cam mechanism.
- ⇒ Follow your design to create your own moving toy with a cam mechanism.



## Key Vocabulary

To be able to understand the meaning of...

- \* Cam
- \* Rotational movement
- \* Pivot point
- \* Linear movement
- \* Follower
- \* Slide

## Evaluate

Reflect and evaluate your end product against the design criteria

- ⇒ I can talk about my design and plan and evaluate it against the design criteria. I can consider the views of others to improve my work.

## Thundersley Primary School - Creative Topic Parameters

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

**Design and Technology -**

**Year 5**

**Autumn / Spring / Summer**

### Design Brief

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

- ⇒ *Investigate and evaluate bread products according to their characteristics*
- ⇒ *Learn how bread products are an important part of a balanced diet.*
- ⇒ *Find out which ingredients are needed to make bread and how to handle tools and ingredients safely and hygienically.*
- ⇒ *Design a new bread product and list the method that will be used to make your product.*
- ⇒ *Follow your instructions to make your product.*

### Key Vocabulary

*To be able to understand the meaning of...*

- \* *Names of utensils*
- \* *Ingredients used*
- \* *Carbohydrate*
- \* *Savoury*
- \* *Taste test*
- \* *method*

### Evaluate

*Reflect and evaluate your end product against the design criteria*

- ⇒ *I can talk about my design and plan and evaluate it against the design criteria. I can consider the views of others to improve my work.*

