

Year 3



Knowledge Organiser: D&T

Inquiry Question: How are castles built?

Key Vocabulary

Design	Make	Evaluate
Build	Structure	Frame
Strut	Façade	Net
Tab	Feature	Stable

Key Learning

Build structures with increasing independence.

Begin to demonstrate a growing understanding of how to strengthen frames using diagonal struts and how to reinforce their finished product.

Know and use technical vocabulary relevant to the project.

Skills

Design	Make	Evaluate
Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose and specific user/s.	Plan the main stages of making.	Test their product against the original design criteria and with the intended user.
Use annotated sketches, prototypes, final product sketches and pattern pieces; communication technology to develop and communicate ideas.	Select from and use a range of appropriate tools and equipment with some accuracy related to their product.	Evaluate the ongoing work and the final product with reference to the design criteria and the views of others.
	Select from and use finishing techniques suitable for the product they are creating.	

In Year 2, you learnt;

- How to make freestanding structures stronger, stiffer and more stable.
- How to use some technical vocabulary relevant to your D&T project.

Overview - Structures

Structures are things that are built for a purpose.

A frame is a rigid support structure that gives shape and forms support for its parts. The word rigid means stiff, not bending or changing shape. Every building, vehicle, and piece of furniture has a frame structure. You can make a shape stronger by putting an extra piece in place; diagonally from one corner to the opposite. This extra diagonal piece is called a strut.



A structure is rigid when...

A frame structure is...

A strut is used to...

I am going to use.. I need...

