

Year 1 Design and technology – Autumn term 2

Unit of Learning: Constructing a windmill

Big Question: How can I create a standing structure that moves in the wind

Prior learning: Pupils have worked on fine motor control. They have used junk modelling to assemble and join.

At the end of this topic, pupils will know:

Line of Enquiry

National Curriculum Objectives

1. How to create a stable structure?
2. How to use tools and equipment accurately to make part of a structure.
3. How do I join parts of a structure
4. How can I evaluate and improve my structure?

- Follow design criteria to meet the needs of a user.
- Make a stable structure.
- Make functioning sails/blades that attach to the supporting structure.
- Improve their windmill.

- It should stand up on its own.
- It should have a part to catch the wind and a standing structure.
- It should move in the wind.
- It can be decorated.



The three main parts of a windmill:



What does the caretaker need for the windmill?

Vocabulary	Definition
Axle	A long, straight piece of material which connects to a rotating part
Evaluation	Looking at what is good and bad about something and thinking about how to make it better.
Sail	The parts that move in the wind.
Stable	An object that does not topple over easily.
Structure	Something that is built for a purpose
Test	To find out whether something works as it should.
Windmill	A structure with sails that are moved by the wind.



There are lots of different types of windmill around Britain. Have you seen any of these before?

As children of God we are loved, we are called, and we are inspired.

