

Upperby Primary School - Design and Technology Knowledge Organiser

YEAR 2 - Spring 2 — Construction and Materials - Making a secure, moving windmill

Knowledge — What will I know at the end of the unit?

- To understand what a windmill is and explain some features
- To design a moving windmill, which is secure and supports a turbine
- To use equipment and tools with some precision
- To evaluate the product and say what could be improved next time.

Skills

- Use tools to cut, join and shape materials.
- Select materials, shapes and joins that will strengthen, stiffen and stabilise a structure that moves.

Evaluate

Can I identify and explain some features that would appeal to the user? (mouse)

Can I create a suitable design using captions and drawings?

Can I make a stable structure that can support the turbine?

Can I explain what makes a strong, secure structure?

Can I select and use the correct materials with some precision e.g. tape and glue?

Can I make a functioning turbine and axel that moves?

Can I evaluate my product against a design criteria and say how my product has or hasn't met it?

Can I explore existing products and say what I will include in mine?

Can I use tools and equipment e.g. scissors and joining and with competence and skill?

Can I say and show how to make my structure more stable?



