

Year: 1
Term: Autumn 1
Topic: Structures - Constructing a windmill



St Dennis Primary Academy

"Everyone matters, everyone succeeds, every moment counts"



Where does this learning link to aspirations for the future?

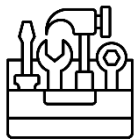
James Blyth was a wind turbine pioneer. Renewable energies are very important now and something you could get involved with in the future.

In DT, we follow this five step process.

Research



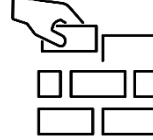
Skills



Design



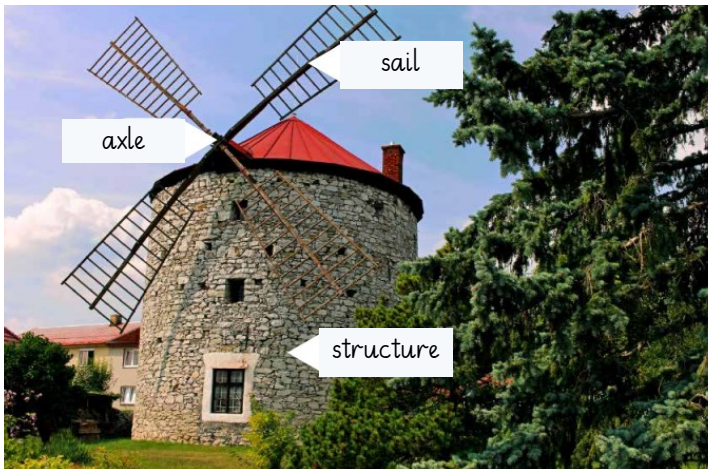
Make



Evaluate



There are three main parts to a windmill:



What does a windmill need to be like?

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



Glossary

axle

A long, straight piece of material which connects to a rotating part (sails of a windmill).

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 strong and 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 windmills.

Have you seen any of these before?