

Design

Students will research a range of different materials and explain the properties of each.

Students will work in teams in order to produce a range of different ideas for a windmill

Students will label their design ideas in order to explain all the key features.

Students will develop their ideas based on the feedback given by the rest of the team.

Students will produce a final design idea for their windmill

Year 2 Windmill / Pinwheel

Make

Students will create an order form for the materials they will need in order to make their windmill.

Students will manufacture their landing craft using the materials they have selected.

Students will test their windmill.

Students will adapt their windmill based upon the test they would have completed.

Students will develop their windmill to improve it further.

Evaluate

Students will discuss the positives and negatives of each of the different materials to use in a windmill.

Students will evaluate each of their own design ideas in teams to explain the good elements and elements that can be improved.

Students will evaluate their windmill by testing it.

Students will explain what could be improved in their work before applying it into their work.

Students will be able to explain why their work was successful or not successful.

Key Vocabulary

Properties – A characteristic of that material such as how hard it is, whether it can bend or change shape etc.

Testing – Checking a material or a product to see if it does everything it is supposed to do.

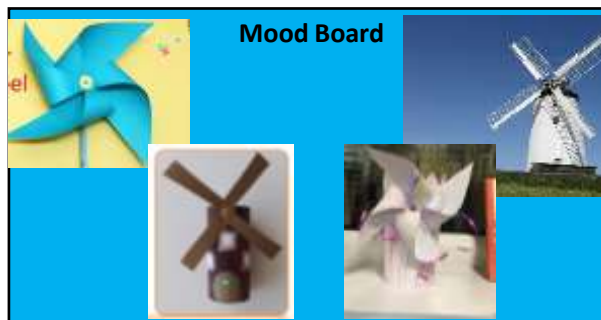
Components List - List of parts needed to make a product.

Research – Investigating different materials to see how successful they are.

Labelling – Text added to a drawing to explain the key features.

Development – Changing your idea to improve it and make it better.

Modify - To alter or change a design



Mood Board

Related Mathematics

1 centimetre = 10 millimetres

1 metre = 1000 millimetres

Interesting Websites

<http://technologystudent.com/>

<http://www.mr-dt.com/>

Famous Engineers

James Blyth

Professor James Blyth MA, LLD, FRSE FRSSA was a Scottish electrical engineer and academic at Anderson's College, now the University of Strathclyde, in Glasgow.

