

Main Criteria: Forward Education
Secondary Criteria: Curriculum for Wales
Subjects: Mathematics, Science, Technology Education
Grades: 5, 6, Key Stage 2

Forward Education

How Wind Turbines Capture Kinetic Energy

Curriculum for Wales
Science
 Grade **Key Stage 2** - Adopted: 2008

Document		Key Stage 2 Programme of Study
Strand		Skills
Standard		Communication - Pupils should be given opportunities to:

Standard 2 communicate clearly by speech, writing, drawings, diagrams, charts, tables, bar charts, line graphs, videos, and ICT packages, using relevant scientific vocabulary

Document		Key Stage 2 Programme of Study
Strand		Skills
Standard		Enquiry - Pupils should be given opportunities to carry out different types of enquiry, e.g. pattern-seeking, exploring, classifying and identifying, making things, fair testing, using and applying models, by:
Standard		Planning - Pupils turn ideas suggested to them, and their own ideas, into a form that can be investigated. They outline the planned approach/method recognising, deciding upon and giving some justification for each of the following when appropriate:

Standard 6 the equipment and techniques required for the enquiry

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Strand		Skills
Standard		Enquiry - Pupils should be given opportunities to carry out different types of enquiry, e.g. pattern-seeking, exploring, classifying and identifying, making things, fair testing, using and applying models, by:
Standard		Developing - Pupils follow the planned approach/method, revise it where necessary, and where appropriate:

Standard 2 make careful observations and accurate measurements, using digital and ICT equipment at times

Standard 5 use some prior knowledge to explain links between cause and effect when concluding

Standard 7 form considered opinions and make informed decisions.

Document		Key Stage 2 Programme of Study
Strand		Skills
Standard		Enquiry - Pupils should be given opportunities to carry out different types of enquiry, e.g. pattern-seeking, exploring, classifying and identifying, making things, fair testing, using and applying models, by:
Standard		Reflecting - Pupils think about what they have done in order to consolidate learning and transfer skills, knowledge and understanding to other contexts by:

Standard 5 describing how they have learned and identifying the ways that worked the best

Standard 6 linking the learning to similar situations, within and outside school.

Document		Key Stage 2 Programme of Study
Strand		Range
Standard		How things work - Pupils should use and develop their skills, knowledge and understanding by investigating the science behind everyday things, e.g. toys, musical instruments and electrical devices, the way they are constructed and work. They should be given opportunities to study:

Standard 1 the uses of electricity and its control in simple circuits