

Main Criteria: Forward Education
Secondary Criteria: Curriculum for Wales
Subjects: Mathematics, Science, Technology Education
Grades: 7, 8, Key Stage 3

Forward Education

Harnessing the Sun's Energy with Solar Panels

Curriculum for Wales
Science
Grade Key Stage 3 - Adopted: 2008

Document		Key Stage 3 Programme of Study
Strand		Skills
Standard		Communication - Pupils should be given opportunities to:

Standard	1	search systematically for, process and analyse information for a specific purpose, including ICT as appropriate
Standard	2	communicate logically by speech, writing, drawings, diagrams, charts, tables, bar charts, line graphs, videos and ICT packages using a wide range of scientific vocabulary, terms, symbols and conventions

Document		Key Stage 3 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 decide on the most suitable type of enquiry to carry out and outline the planned approach/method, recognising, deciding upon and justifying 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 sufficient relevant observations and accurate measurements, using ICT as appropriate, to a degree of precision appropriate to the enquiry
Standard	4	use scientific prior knowledge to explain links between cause and effect when concluding
Standard	7	consider others' views to inform opinions and decisions.

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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		Reflecting - Pupils think about what they have done in order to consolidate their learning and transfer skills, knowledge and understanding to another context by:
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Standard	3	identifying the learning/thinking strategies they have used
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Standard	4	linking the learning to dissimilar but familiar situations, within and outside school.
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Document		Key Stage 3 Programme of Study
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Strand		Range
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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:
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Standard	1	the uses of electricity and its control in simple circuits
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