Green STEM Project:
Sustainable Energy: Wind Power

Type	Out-of-School Activity
Purpose	To introduce gifted and talented pupils to wind power with all its technical, scientific and social demands and implications
Description	Pupils will use a model to investigate the optimum parameters of a windmill which affect the output. Spreadsheets will be used to evaluate cost-effectiveness, the principles of electro-magnetic induction and its relation to motion will be explored. In addition, data loggers will be used to analyse the data, so that the best locations for wind farms can be investigated by the students. Linked to the new NC programme of study, cross-curricular issues will highlight social and other influences from History, English and Citizenship.
Cross-Curricular links:	• D&T • Mathematics • Science • ICT • Geography • History, English, Citizenship
Keystage	KS3, possibly KS2-3 as a transition project or project for 'Engineering club' leading to Silver CREST award

If you would like more information regarding this project, please contact Klaus Selke on 01482 372677 or klaus@heta.co.uk.