

## **Green STEM Project: Control Systems for a Greenhouse**

Type	Lesson plans and project activity
Purpose	Raising the level of knowledge in the context of ‘How Science Works’. Study of the use and problems of oil as our current main fuel source. Introduction to the installation, control and use of alternative energies, using wind power as an example. Raising awareness of the social implications and responsibilities using old and new technologies
Description	<ul style="list-style-type: none"><li>• Credibility of evidence and pitfalls of interpretation of raw data</li><li>• Using newly acquired knowledge for technological development and the study of its impact on the environment</li><li>• This project is a self-contained unit within a larger project based on a greenhouse and an environmental garden</li><li>• Distillation of crude oil into fuels</li><li>• Impact of carbon-based fuels on the environment and uses of alternative fuels such as ethanol and hydrogen</li><li>• Effects of undesired by-products and how they are dealt with</li><li>• Research into control systems for climate control</li></ul>
Cross-Curricular links:	
Keystage	KS4

**If you would like more information regarding this project, please contact Klaus Selke on 01482 372677 or [klaus@heta.co.uk](mailto:klaus@heta.co.uk).**

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