

Westlakes Research Institute

Working in Partnership to bring a programme of activities for Year 10's

<u>DATE</u>	<u>TITLE OF EVENT</u>	<u>PARTNER(S)</u>
Wednesday 19 th May 2004 1330 hours – 1430 hours	The Science of Roller Coasters	Institute of Physics

In this instance this lecture will showcase:

- § Physics (forces, acceleration, laws of motion, energy conversion etc.)
- § Maths
- § How science underlies the design of coasters, what designers have to consider and how we keep the riders safe.
- § How roller coasters work, how they have historically developed and where they will go in the future (a lead into business).
- § Local connections to business - The Babbie Group are involved in the design and construction of roller coasters, a sub division of which is based on the Science and Technology Park.

<u>DATE</u>	<u>TITLE OF EVENT</u>	<u>PARTNER(S)</u>
Thursday 8 th July 2004 0945 hours – 1430 hours	Environmentalists in the Community with workshop and lecture based activities	Institute of Environmental Management and Assessment

The depletion of raw materials and the environmental impact of waste is a major cause for concern for government. As legislation in this field gathers momentum, society is being encouraged to recycle their household waste. This day enables pupils to think about these issues, apply the facts presented in two talks, on fact sheets and through internet searches to establish what decisions they would make.

Each group needs to present their decisions based on:

- § Cheapest options i.e. pure financial reasons
- § Environmental Impact. i.e.the most environmentally friendly options

And then explain their most favoured option(s) and why (this could be a mixture of the two). Ability to apply and communicate findings, and gain support for their ideas/strategy will be the key to success.

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