

ELECTRIC ENTERPRISE CHALLENGE



Students Work in small teams to design and build Electricity pylons that support the weight of Electric cables that run from a working Generator to a realistic model town where buildings light up and Cars move around. Within a team Students decide on a Purchaser, Designer and Builder. Using Electronic banking students have 5000 Credits to build their Structure purchasing materials from our. Students also learn about Generating Electricity and many other learning objectives to suit your requirements (See extension tasks).

Location: STAR room. (We can travel to you with this activity)

Group size: 4 – 60 Students.

Recommended Level: All levels and Abilities catered for.

Cost: POA.

Consumables: Paper, Card, Paper clips, Glue, Tape, M5 nuts and Bolts.

Tools and Equipment: Scissors, Hole Punch, Monopoly E bank and Swipe cards, Rolling Dowels.

Staffing: Mr. Emanuel & Mr. Woodward.

Time needed: Half day (Scaled down version can be done in 1 hour at a push)

Extension Tasks: This Activity has been delivered to y4 Primary students as a Team building Structures project. KS3 Special School with the focus on Structures and Teamwork. KS3 with an Enterprise Focus. KS3 with the focus on Electronic circuits (Series and parallel), Structures, Generation of electricity. KS4 Engineers looking at advanced Electronics such as converting AC to DC and Using a Multi meter and Oscilloscope. Other areas for Development could be Debates on Pylons and Renewable energy sources.



Curriculum Areas: Engineering
Resistant Materials
Compliant Materials
Electronics
Science
Maths
Citizenship
Business studies
Geography

Software used: Crocodile clips

Subject Specific words

Tools and Equipment: M5 Nuts
M5 Bolts
Rolling Dowels
Hand Dynamo
Scalextric
Hole Punch
Scissors
Glue Sticks
Tape
String
Monopoly Electronic Banking
Price Lists
Hand dynamo
Electric Cables

Other: Materials
Structures
Electricity
Generator
Series
Parallel
Circuit
Alternating current
Direct current
Oscilloscope
Dynamo
Generator
Power Station
Renewable energy

Health and Safety: Sharp objects
Badge Press (finger trap)

Functional Skills: Hand Eye Co-ordination
Using appropriate tools and equipment
Art and Design Skills
Shape and size
Mathematical
Safe use of tools and equipment
Working on a Focused Practical task
Team Work
Enterprise
Creative thinking
Working to a deadline and completed product
Health and Safety

Every Child Matters: Enjoy and Achieve
Stay Safe – Electricity is Dangerous reminder
Make a positive contribution – Team work



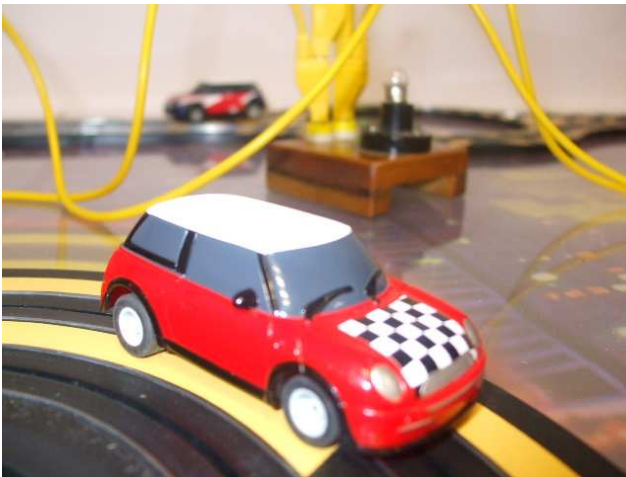
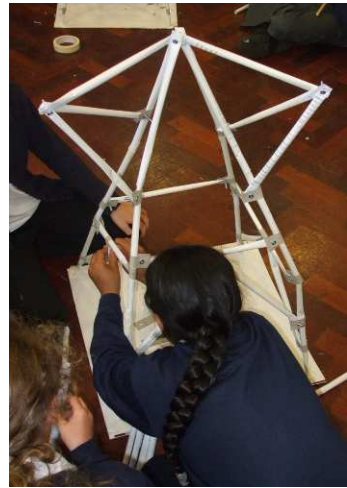
Engineering



Specialist Schools Trust
EXCELLENCE AND DIVERSITY



Energy



Climate Change

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Thursday 21st February, 2002 08:00 GMT

Wind farm plans take a backward step



No wind farm for Lincolnshire for at least a year

Plans for an offshore wind farm in Lincolnshire have had to be put on hold.

The company involved may have to wait up to eight months before proceeding with their plans.

