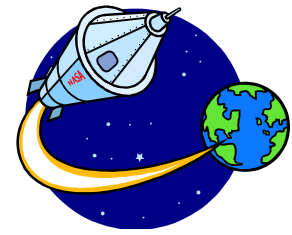


ROCKETS AWAY



Students Design, Make and launch their very own rocket. They learn about different materials and their properties, how rockets work and the different forces that act on them. We also discuss Logo design, slogans and Corporate Identity. Our Rockets are launched using compressed air; this is an opportunity to talk about Health and safety. The height the rocket achieves is calculated and students talk about how they could improve their design in the future.

Location: STAR room.

Group size: 4-16 students.

Recommended Level: KS2 or KS3

Cost: £2 per pupil (min charge 10 Students)

Consumables: Paper, ink.

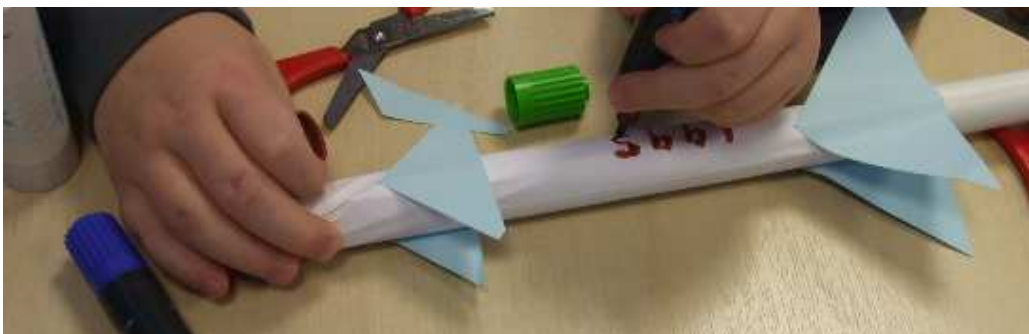
Tools and Equipment: A4 paper, Coloured Card, Nose Cones, Plastic tube, Glue, Sticky Tape, Compressor, Launch pads, Launch Box & Key, Chalk, Felt Pens, scissors, Hard Hats.

Staffing: Mr. Emanuel & Mr. Woodward.

Time needed: 1Hr Minimum.

Extension Tasks: Extension tasks are available to suit the group. For example... Injection Moulding Demo using our Plastic forming Centre and Rocket Nose Cone Mould. In depth look at Forces and Newton's Laws.

Stoke-on-Trent
citylearningcentres
Forward thinking technologies



Curriculum Areas: Engineering
Resistant Materials
Compliant Materials
Art
Maths
Science
English

Software used: N/A

Subject Specific words: Shape
Size
Design
Aerodynamics
Logo
Compressor

Health and Safety: Sharp objects
Glue
Compressor
Flying objects
Launching Rockets
Trips and Falls around Launch Area
Weather

Functional Skills: Hand Eye Co-ordination
Using appropriate tools and equipment
Design Skills
Literacy – Company Name and Slogan Design
Safe use of tools and equipment
Working on a Focused Practical task
Working to a deadline
Health and Safety
Forces and Motion

Every Child Matters: Enjoy and Achieve

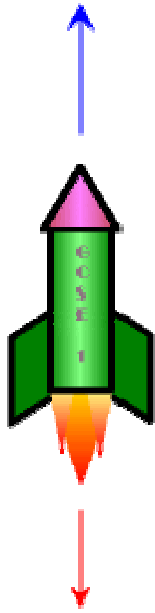


Engineering



Specialist Schools Trust
EXCELLENCE AND DIVERSITY

Thrust



Drag (friction)

