



**Single school
Science & Technology
Activity Day
for Years 7-11**

What are the Science & Technology events for?

The events are designed to raise enthusiasm for STEM subjects and to encourage young people to consider studying them at college and university.

What happens?

Five/six consecutive sessions are arranged throughout the school day, each involving 24 young people. Within teams, the young people undertake practical activities based on robotics, EFIT software (used by police forces to generate images of suspects) and medical diagnostics.

The activities provide the young people with an insight into the application of science and technology.

The young people are encouraged to work together and to plan their work within time constraints. They will be working with members of our team of DBS-checked university students.

Throughout the event, there will be the opportunity for young people to ask questions about university.

How are they rated?

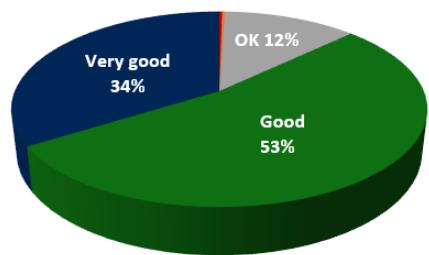
In order to conform to Covid restrictions, this year we are arranging single school events rather than mixed school Science & Technology Challenge Days hosted by local universities and colleges.

In 2019, MCS Projects Ltd organised 27 Challenge Days, involving 206 schools.

Evaluations of these events indicated that:

99% of the teachers and 87% of the young people considered their Challenge Day to have been 'good' or 'very good'.

YOUNG PEOPLE'S OVERALL EVALUATION RESULTS



Importance of STEM

Engineering UK states that *emerging new industries and technologies are adding to already significant demand for engineering skills. There is currently an annual shortage of up to 59,000 engineering graduates and technicians to fill core engineering roles*



The Robotics Challenge

Each team is provided with the latest Lego Mindstorm EV3 robot, which they programme in order to navigate around a course. Each robot is equipped with ultrasonic and infrared sensors.

The E-FIT Challenge

Having witnessed a simulated crime, each team uses the latest E-FIT 6 facial recognition software (as used by 90% of UK police forces) to create a computer image of the thief. They also consider problems associated with memory and facial recognition



The Medical Diagnostics Challenge

Each team undertakes the role of a doctor, diagnosing conditions suffered by simulated patients. They test 'urine' samples, evaluate brain function, examine X-rays and brain scans. They consider how the brain works, seeing equipment operated directly by the brain.

How do I make a booking?

The total cost for up to six sessions, each involving 24 young people is £970 + VAT.

To reserve a place for your school please email John Waterworth, Events Organiser MCS Projects Ltd.

E: john.waterworth@mcsprojectsLtd.co.uk

T: 07725 817009