

mtc

Manufacturing
Technology Centre

OFFERING FREE AND INTERACTIVE STEM WORKSHOPS

ENCOURAGING DIVERSITY AND
INCLUSIVITY IN ENGINEERING



mtc

Tilly Shilling
Initiative





The pupils from Pattisons enjoyed the event today, many thanks for being so inspiring in this field of work.

Mumta Patria
Pattison College, Coventry



WHO WE ARE

The MTC is an independent Research & Technology Organisation based in Coventry. Our vision is to inspire Great British manufacturing on the global stage.

The Tilly Shilling Initiative are a group of professionals within the MTC who inspire and engage students of all ages to show them how challenging and rewarding a career in engineering can be.

We are spreading this message by hosting activities such as:

- ▶ Free interactive STEM workshops in schools and colleges
- ▶ Promoting understanding of engineering to teachers to be able to pass on knowledge
- ▶ Careers events at schools, colleges and universities
- ▶ Young engineer events at the MTC
- ▶ And more...



WHAT WE OFFER

Tilly Shilling Initiative offers free interactive days for students, hosted at the MTC or at schools. The days consist of a variety of activities and talks from our engineers and will be tailored to be age appropriate. You can choose as many or as few activities as time allows.



Spaghetti Tower Challenge

- ▶ As a team, the students design and build a tower from spaghetti, marshmallows and jelly babies.
- ▶ Develops team working, communication, mechanical design, iterative design and project financing.
- ▶ Duration: 1 hour.
- ▶ Groups of 30 students.



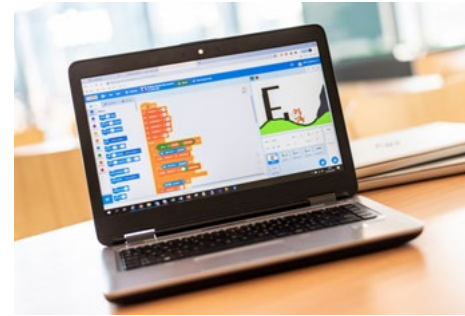
Virtual Reality Demo

- ▶ Students placed in the virtual environment.
- ▶ Develops understanding of digital engineering and a new aspect of engineering that isn't normally considered.
- ▶ Duration: 30 minutes.
- ▶ Groups of 2-5 students.



Chocolate Testing

- ▶ Metrology is the scientific study of measurement, it is a key aspect of engineering. In this workshop we use impact testers to measure mechanical properties of chocolate!
- ▶ Develops an understanding of metrology, testing process and chocolate!
- ▶ Duration: up to 1 hour.
- ▶ Groups of 30 students.



Coding Challenge

- ▶ Make your own animations and games whilst you learn basic coding concepts.
- ▶ Develops computer skills.
- ▶ Duration: 1+ hours.
- ▶ Groups of 12 students



A to B Challenge

- ▶ Design and build your own machine out of everyday objects to move cargo from point A to B!
- ▶ Develops creativity, financial understanding.
- ▶ Duration: Maximum 1.5 hours.
- ▶ Groups of 30 students



Workshop Tours

- ▶ Visit our cutting edge workshop and discover the latest manufacturing technologies, we have a big laser, plenty of 3D printing, robots and a machine workshop!
- ▶ Duration: 30 minutes.
- ▶ Groups of 10 students

HOW TO BOOK

Contact us with the following information and find out more about our STEM workshops and other activities.

STEM Coordinator

Email: tsi.events@the-mtc.org

Information we need to know:

- ▶ Year and age group
- ▶ Amount of children
- ▶ Available dates
- ▶ Available times
- ▶ Location (The MTC, School or other)
- ▶ Preferred workshops



The event was a great success with students actively engaged during the day in a whole host of activities to develop their employability skills.

This type of interaction is so crucial to enable our students to see the wealth of opportunities available. We look forward to working with the MTC again in the near future.

Sally Hodge
Westwood Academy, Coventry



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For more information visit our website:
www.the-mtc.org

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