

# STEM Pupil Experience

## Robotics Roadshows

Science  Technology  Engineering  Maths

**The Robotics Roadshow offers the opportunity to teach pupils about basic technology / computer science skills and concepts to solve practical challenges.**

The Robotics Roadshow makes coding fun, accessible and easy to teach.

The session helps educate pupils on the fundamental principles of computer science via these unique, programmable, quick-fit construction kits that can be built into multiple exciting robots!

This roadshow will inspire your pupils and support the curriculum. This innovative STEM project has the potential to link to a national robotics competition, but also to support schools establishing their own robotics curriculum enrichment activities and after-school clubs.

### Robotics and the Curriculum

The Robotics Roadshow has many classroom based activities, which can help meet the requirements of the National Curriculum;

- Create and debug simple programs
- Use logical reasoning to predict the behaviour of simple programs
- Design, write and debug programs that accomplish specific goals
- Use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- Convert between different units of measure (cm/mm)
- Identify; angles at a point and one whole turn ( $360^\circ$ ), angles at a point on a straight line and  $1/2$  a turn (total  $180^\circ$ ) and other multiples of  $90^\circ$

The Robotics Roadshow will consist of pupils learning about the different types of robots used in everyday life and industry. They will investigate and design a robot suited for purpose.



*"It offers opportunities which most schools cannot offer in the classroom. A great educational experience. Thank you"*

*"Different, engaging, approach to using scratch. Good application of maths skills cm > mm!"*

For more information and to make a booking **01603 307715** or **STEM@EducatorSolutions.org.uk**

### Key Curriculum links:

Technology – coding and programming

Maths – applied measuring and conversion

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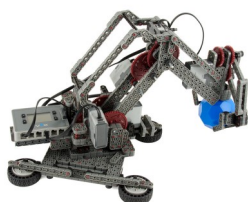
# Robotics Roadshows

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### Date Options:

Thursday 10th October  
Tuesday 15th October  
Thursday 31st October  
Tuesday 5th November  
Monday 11th November  
Monday 25th November  
Tuesday 3rd December  
Tuesday 10th December  
Monday 16th December  
Tuesday 21st January  
Thursday 30th January  
Monday 3rd February  
Tuesday 11th February  
Wednesday 26th February  
Friday 6th March  
Thursday 19th March  
Tuesday 24th March  
Thursday 21st May  
Tuesday 2nd June  
Friday 19th June

If none of these dates suits your school, please contact us for your availability needs.



**Audience: Primary**

**Venue: The Kinesis Centre**

**Price: £20 per pupil**

*[Norwich City Football Club tours can be booked as part of the session however there are additional costs associated with this]*

### Booking Details:

To make a booking and for more information please contact STEM at [STEM@educatorsolutions.org.uk](mailto:STEM@educatorsolutions.org.uk) or **01603 307715**

Minimum number of 20 pupils and Maximum number of 40 pupils.

Delivered at the Kinesis Centre, our specialist learning space in the Norwich City Football Club Stadium.

*"An excellent day—  
many coding skills, and  
presenting challenges  
using teamwork skills"*

*"The whole class loved it;  
many said it was the  
best trip they'd ever been  
on. They learned a huge  
amount and had lots of  
fun!"*

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