

We Bring STEM to Life

• Science • Technology • Engineering • Maths



VEX IQ Challenge

Robotics and coding for students aged 8-14

Educator Solutions



The VEX IQ Challenge is a robotics competition for students aged 8 to 14. Teams of students work together to design, build and program a robot to complete a specific engineering task which is presented in the form of a game. The robot itself is built using the VEX IQ robotics platform – a completely reusable construction set that contains motors, sensors, a programmable “Brain” and many different structural and mechanical parts. The robot is programmed using one of a number of different programming languages which range from graphical “drag and drop” through to full text-based programming.

VEX IQ Grants from Educator Solutions - £400 worth of VEX IQ Challenge Kit Free

Educator Solutions are pleased to be able to offer funding support grants to schools in Norfolk which will include everything they need to enter two teams into the VEX IQ Challenge. To be eligible for the grant, schools must purchase one VEX IQ Challenge kit and register two teams representing a total investment of £500. A second kit worth £400 will be provided free of charge.

What is included

Absolutely everything you need to enter two teams into the VEX IQ Challenge!

2x VEX IQ Super Kits

The VEX IQ Super Kit contains everything you need to build your first VEX IQ Challenge robot.

Each kit contains:

- VEX IQ Brain
- VEX IQ Joystick and radios

- 4 Smart Motors
- 7 Sensors
- Hundreds of structural parts
- Storage bin
- All batteries, charger and cables
- Programming software

2x VEX IQ Foundation Add-on Kits

Each of the Foundation Add-on Kit contains over 1000 additional structural and mechanical parts for making larger and more complex competition robots.

2x VEX IQ Competition Add-on Kits

Each Competition Add-on Kit contains advanced parts that can be used to turn a good robot into a great robot.

Each kit contains:

- 2x Omni-directional wheels
- 6x Wheel hubs
- 4x Large wheel hubs
- 12x additional tyres in various sizes
- 1x Chain and sprocket kit
- 1x Tank tread and intake kit

2x VEX IQ Challenge Team Registrations

The registration allows your team to compete in the VEX IQ Challenge at events all over the United Kingdom. A Norfolk event will be held at a venue in Norwich but you can also attend as many other events around the country as you like.

The kits can be deconstructed and rebuilt year after year, making this a completely sustainable project and an effective use of your investment.

For more information and make a booking contact Bernice Dixie:

Bernice.Dixie@educatorsolutions.org.uk or call 01603 307715 or 218757

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Want to find out more about this amazing opportunity?
STEM will be holding a launch event on 4th May.

Extra Information

VEX IQ Page at Rapid Education – www.rapidonline.com/vexiq

VEX IQ Challenge Video - <https://www.youtube.com/watch?v=MqBxlGVAYso>

🐦 @STEM_Kinesis

🐦 @Vexroboticsuk

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It's fantastic to see so many girls taking part, over 50%. It's great because we are not seeing that in the industry right now so we are looking at initiatives like this to inspire young women to realise that engineering is for them, it's for everyone

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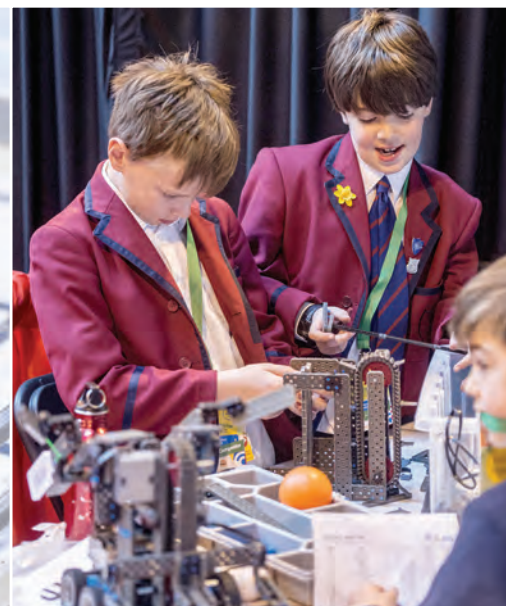
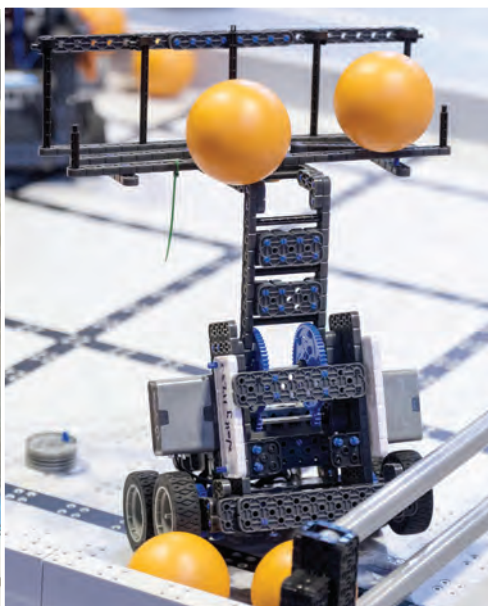
Emma England - Loads and Aeroelastics
Engineer, Airbus

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We initially started the club with two teams and it has grown to eight. Students really engage with the challenges that the VEX IQ offers and they are able to go through the complete design process with a goal in mind. They develop their teamwork and communication skills as well as their understanding of physics, engineering, and computer science concepts. The excitement of the regional competitions allows them to put into practice all of their hard work, learn from other students and celebrate their achievements. Once they've qualified for the UK National Championships, they're motivated to improve their design, programming, and Engineering Notebooks

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Ashley Boll, Physics Teacher



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LAUNCH EVENT INFO

Contact Details:

Bernice Dixie (STEM Coordinator)
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01603 218757 or 01603 307715
🐦 @STEM_kinesis
www.educatorsolutions.org.uk

Audience

Primary

Headteacher, Deputy Headteacher,
Class Teacher, NQT, Teaching
Assistants & Parents

Secondary

Design Technology Teacher, Science
Teacher, Computer Science Teacher,
STEM Coordinator

Date: Thursday 4th May

Time: 14:30 - 16:30

Venue

The Kinesis Centre (Formerly the
Study Centre) at Norwich City
Football Club, Carrow Road,
NR1 1JE

