

Motorsport and Education in Scotland

The following guide highlights motor sport related opportunities that are available to students and youths in Scotland



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F1 in Schools

F1 in Schools offers students a unique opportunity to learn Science, Technology, Engineering and Maths (STEM) in an exciting way, which has proven to increase the intake of students into engineering careers.

F1 in Schools is a global multi-disciplinary challenge in which teams of students aged 9 to 19 deploy CAD/CAM software to collaborate, design, analyse, manufacture, test, and then race miniature compressed air powered F1 cars.



Students follow the same processes real Formula One teams follow from their initial business plan through to their car design with the challenge inspiring them to use IT to learn about physics, aerodynamics, design, manufacture, branding, graphics, sponsorship, marketing, leadership/teamwork, media skills and financial strategy, and apply them in a practical, imaginative, competitive and exciting way.

Teams compete in Regional finals, to determine who goes through to the UK National finals and are even World finals where teams compete for the 'Bernie Ecclestone World Champions Trophy'.

For more information on how to register and get involved in the F1 in Schools programme, visit:

<http://www.f1inschools.co.uk/>

Green Power

The Green Power project is an electric car challenge which requires students, guided by their teachers and an industry mentor, to design, build and then race an electric car. Regional and National finals are held at major motor racing circuits around the UK and are often well attended by the general public who can witness the amazing vehicles, focus and team work evident at these events.



There are 3 different formulas. The 'Goblin Formula' for students aged between 9 and 11 years old, 'Formula 24' for students aged between 11 and 16 years old and 'Formula 24+' for students aged 16-25. Both cars come in basic kit form and are purchased from Green Power. (Goblin Kit: £1,100 and Formula 24 / 24+ kit costs £2,700)

The Goblin kit comes flat packed with step by step instruction guiding the team through the build in an easy to understand manner. The build introduces children to basic mechanics and on completion they can use it at one the Green Power Events around the country.

The Formula 24 / 24+ cars must all use standard electric motors and batteries but students are otherwise free to design a car from their own imagination, or they can build one of the Green Powers kit cars. Teams must compete in a regional heat which consists of two 90 minute races, where the team completing the most miles wins. The top 3 cars in each region qualify for the National finals at Goodwood.

Since the first event in 1999, Green Power has expanded significantly and now works with 500 schools and over 8000 students around the UK.

For more information on how to get started in Green Power, visit:

<http://www.greenpower.co.uk/>

Formula Student

Formula Student (FS) is Europe's most established educational motorsport competition, run by the Institution of Mechanical Engineers. Backed by industry and high profile engineers such as Patron, Ross Brawn OBE, the competition aims to inspire and develop enterprising and innovative young engineers. Universities from across the globe are challenged to design and build a single-seat racing car in order to compete in static and dynamic events, which demonstrate their understanding and test the performance of the vehicle.



Formula Student gives team members the chance to demonstrate their technical, engineering design, and manufacturing skills. Students also learn important skills that will be attractive to future employers such as; team working, time management, project management, budgeting and presentation.

The finale of the UK Formula student competition is held at Silverstone each year and attracts teams from all over the world. The 2015 event will be held on July 8 -12th, with 135 teams registered to compete, 49 of which are British teams.

For more info on Formula Student, visit: www.formulastudent.com

MSA / FIA Action for Road Safety Film Studies Competition

This competition invites young people aged between 16 and 24 to create a short video highlighting one of the FIA's (Federation Internationale de l'Automobile) Ten Golden Rules for safer motoring. These rules are:

- Buckle up
- Respect the Highway Code
- Obey the speed limit
- Check tyre pressures
- Drive sober
- Protect children
- Pay attention
- Stop when tired
- Wear a helmet (on two wheels)
- Be courteous

Entrants are required to submit an innovative short film, no longer than 90 seconds in duration, illustrating a treatment of one of the above Ten Golden Rules for safer motoring. The competition is open to independent teams or individuals as well as teams consisting of academic institutions (for example universities, colleges, schools etc.)

The competition is designed to demonstrate the ability of motor sport to play a positive role in society by providing an engaging platform for the communication of valuable road safety messaging, by making young people aware of the principles of safe driving and by illustrating that competitive driving is only appropriate within a carefully regulated environment and with appropriate safety precautions.



The Prize: The two teams (of up to five students) who impress the judges the most in 2015 will get an amazing experience as they travel to a Formula One Grand Prix to enjoy prime grandstand seats. What's more, each winning team will receive £4,000 to spend on filming equipment.

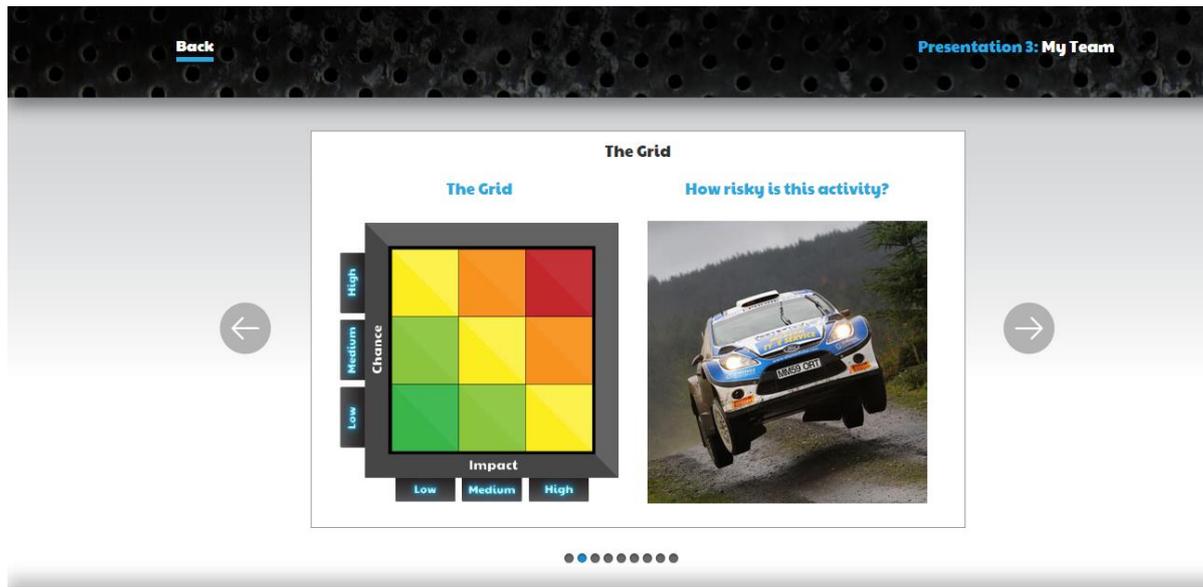
For more info on how to enter the competition, visit:

<https://www.msauk.org/Resource-Centre/MSA/FIA-Road-Safety-Film-Competition#prettyPhoto>

The Grid

The National Curriculum requires that children are taught how to identify a risk and how to manage that risk.

Risk Management is something that occurs every day in motor sport, ensuring that the risks inherent in the sport are minimised to an acceptable level through regulations, technological development and training.



The Grid resource meets the risk assessment and safety aspects of the PSHE curriculum (and equivalents) for UK 10-14 year olds. It makes young people aware of risk as a concept and equips them with a basic understanding of some of the risk management techniques utilised in the exciting but risky environment of motor sport and their application to the everyday world of young people.

Through three whiteboard-friendly, multimedia presentations – with supporting Teachers' Notes and worksheets - the resource provides the first stage in learning how to apply risk management skills in everyday life.

The Grid's resources have been made available to schools and teachers free of charge through the website: www.thegridmsa.org

British Schools Karting Championship (BSKC)

The BSKC is a national arrive-and-drive kart championship that brings competitive, cost-effective karting into UK schools. It is open to all pupils aged 13 to 18, with three drivers representing each school or college.

The teams first enter a practice session and a semi-final at their local participating circuit, with the best teams going on to the regional finals. Successful teams from the regional finals are then invited to the national final for a shot at being crowned the British Schools Karting Champions.

To find out more about BSKC, visit www.bskc.co.uk



British Universities Karting Championship (BUKC)

Similar to the Schools karting championship, BUKC is a national arrive-and-drive kart championship that is open to any full time student studying at an accredited university in the UK.

The BUKC uses the most powerful arrive-and-drive kart fleet in the world and is extremely popular, attracting some of the very best UK karting talent with 62 teams from 38 universities across the country.

Teams of 4 must compete in qualifying rounds around the country, with the top 26 teams progressing onto the National championship. The remaining teams are still eligible for the Rookie championship, which runs alongside the National championship.

To find out more about BUKC, visit: www.bukc.co.uk