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PROUD FOUNDERS & SPONSORS OF...

BUSINESS PLAN

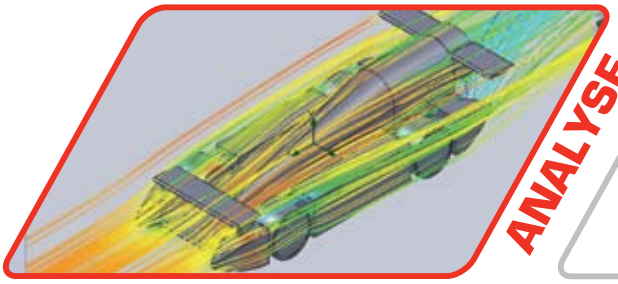
NEW! F1 IN SCHOOLS CURRICULUM RESOURCE
SEE PAGES 68-69

Working in teams of between 3 and 6, each student is assigned roles. The team prepares a business plan, develops a budget and raises sponsorship. Teams are encouraged to collaborate with Industry and forge business links.

DESIGN

Using 3D CAD (Computer Aided Design) software, the team designs a Formula One™ car of the future.

F1™ IN SCHOOLS



ANALYSE

Aerodynamics are analysed for drag coefficiency in a virtual reality wind tunnel using Computational Fluid Dynamics Software (CFD)

MAKE

Using 3D CAM (Computer Aided Manufacture) software, the team evaluates the most efficient machining strategy to make the car.

TEST

Aerodynamics are tested in wind and smoke tunnels.

www.f1inschools.co.uk

RACE

Teams are judged on car speed, as well as supporting evidence of their design, verbal presentation and marketing display stand in "the pits".

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PROJECTS

INNOVATIVE EDUCATIONAL PROJECTS

The F1 in Schools Technology Challenge encourages students to explore a variety of engineering and manufacturing processes by using CAD/CAM and CNC technology to produce their own model F1 Car of the Future. As founding partners of the F1 in Schools Technology Challenge, Denford supply a wide range of equipment and training to get you to the starting line. In addition, Denford also support the 4x4 in Schools Technology Challenge and the Jaguar Primary School Challenge.

4 x4 IN SCHOOLS technology challenge

This National Challenge offers an exciting opportunity to encourage the development of our engineers of tomorrow, to engage young people in the complexities and challenges of design engineering, and to demonstrate the rewards of choosing engineering as a career.

Sponsored by:
Land Rover, The IET,
JCB, Denford, and SEMTA.

www.4x4inschools.co.uk

JAGUAR
Primary School Challenge

F1 in Schools - Jaguar Primary School Challenge engages with Primary School Students and Teachers across the UK in the same way as the Secondary School Challenge.

The challenge is open to pupils aged 5-11 years old (key stages 1 & 2) and involves designing and manufacturing the fastest car possible in either the 2D or 3D challenge, emulating the design and engineering processes employed by real engineering companies, such as Jaguar Cars.

Sponsored by:
Jaguar Cars, and Denford Limited

www.f1inschools.co.uk/primary

To get you up and running, Denford also offer a range of CNC Routers, Lasers, Milling Machines and Lathes, together with tooling packages, workholding kits and courseware.

Total Commitment to Manufacturing Technology in Education and Training Worldwide. ISO9001 compliant.

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CALL NOW T: +44(0)1484 728000
F: +44(0)1484 728100 Email: info@denford.co.uk
Denford Limited, Armytage Road, Brighouse, West Yorkshire HD6 1QF, England