



# WELSH BACCALAUREATE SKILLS CHALLENGE CERTIFICATE

National/Foundation

## Enterprise and Employability Challenge

F1 in Schools - Engineering Education  
Scheme Wales



**Available for assessment from September 2021**

# F1 in Schools STEM Enterprise Challenge

## PURPOSE

The purpose of the Enterprise and Employability Challenge is to develop learners' skills, whilst providing opportunities for learners to develop enterprising skills and attributes and enhance employability. During the Enterprise and Employability Challenge learners will explicitly develop skills in **Creativity and Innovation, Personal Effectiveness and Digital Literacy** and apply them in an appropriate manner.

## BRIEF

The **Engineering Education Scheme Wales** is the official partner of F1 in Schools in Wales. The F1 in Schools competition involves teams of students designing and manufacturing CO<sub>2</sub>-powered model F1 racing cars using sophisticated computer aided design software and computer aided manufacturing techniques (CAD/CAM). Teams compete at regional finals for prestigious awards with the chance of going on to represent Wales at the National and World Finals.



The challenge inspires students to develop their STEM skills and 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.

To help you experience business and the world of work you should work together with other pupils in a team of 3-6 members to design and develop a product that could be used for the team's 'pit' exhibition space for the F1 in school's competition.

It is your opportunity to be creative and innovative, to enhance the team's "pit" display by developing a product that can make the stand more interesting, engaging and impressive for those visiting it. You will display your idea and pitch it to a panel, for example to your class, teachers, pupil committee, F1 team, answering any questions asked.

The Enterprise and Employability Challenge provides you with an opportunity for you to show how creative and innovative you can be including the use of digital technology, as well as demonstrating people skills such as developing a rapport, listening skills, negotiating skills and trusting others. You may also demonstrate your assertiveness and leadership qualities.

## Contact

Email [info@stemcymru.org.uk](mailto:info@stemcymru.org.uk) or call 01656 669381

<https://www.stemcymru.org.uk/home/activities/f1-in-Schools-ks3ks4/>.