



STEM
ON TRACK
PROJECT PROSPECTUS



BUILD

The programme runs in-line with the academic year, with schools receiving their kart kits and tools from early September. Students immediately immerse themselves in their hands-on learning journey, each week constructing the next element of their own karts; cultivating tangible skills in a practical, real-world setting.



Eco-Conscious Kart

- ✔ Second-hand tyres, pre-used and destined for scrap.
- ✔ Carbon Neutral Synthetic Fuel, the ultimate fossil-fuel alternative.
- ✔ Fully dismantle-able system, for year-on-year use.



Learner Focused Design

- ✔ Transparent Hydraulic System, to see it working.
- ✔ Deliberately unfinished engine, to be understood and completed.
- ✔ Fully adjustable pedal system to fit any driver.



LEARN

The STEM On Track programme includes access to an Online Race Academy. Within the Learning Management system, students create a personal profile, before embarking on a guided, step-by-step journey to build their own racing kart. Interactive 'Build' modules teach the practical assembly, before handing over to the 'Learn' modules. These showcase where the mainstream subjects directly align with the hands-on STEM learning they've just completed.

PLAYER SELECT



START



Adam

The 50+ Race Academy Sprint modules offer an innovative approach to STEM education, with curriculum-aligned microlearning courses designed for schools. These bite-sized, 5-15 minute modules are tailored to focus on various STEM concepts related to Motorsport, providing educators with a flexible and engaging resource to enhance their teaching.





Nikki
LE-GRYS

STEM On Track

Sprint Courses

Leaderboards

Assignments



Nikki LE-GRYS

Student Woodbridge School
Courses Complete: 34/56
Kart Progress: Lvl 10

BADGES



Rank

Class: 15th
School: 1st

STEM ON TRACK

BUILD



Rear Brake: Assembly and Fitting

Science | Bronze | 10mins



Fitting of Steering Wheel

Maths | Gold | 10mins



Centralising the Rear Axle

Maths | Silver | 10mins

ENGINEERING ASSIGNMENTS

ASSIGNMENT TITLE

ASSIGNED

DUE DATE

STEM Sprint: Friction

26/10/23

30/10/23

STEM Sprint: Radius and Circles

26/10/23

30/10/23

KERS Explained

1/11/23

11/11/23

What is DRS?

3/11/23

14/11/23

ASSIGNMENTS COMPLETION



RACE ACADEMY SPRINTS



STEM Sprint: Friction

Science | Bronze | 10mins



STEM Sprint: Radius and Circles

Maths | Gold | 10mins



KERS Explained

Science | Silver | 15mins

Explore the Race Academy, our cutting-edge online Learning Management System. With over 50 dynamic STEM courses, it's a dual-powered platform, serving both educators and learners. Offering intuitive dashboards for real-time progress tracking and gamified leader boards, Race Academy ensures an engaging learning experience, fostering a passion for STEM in an immersive environment.



RACE

The STEM Prix marks the culmination of the project, giving schools a chance to display their achievements. Showing-off their bespoke bodywork designs, engaging with their sponsors and finally racing their creations. This concluding event honors not only the students STEM achievements and kart construction, but perhaps more significantly, personal development.



TIMELINE

Schools will have the opportunity to seek sponsorship before final payment due. Espire will assist via guides in addition to our match making service.

Sponsor Match Making
JAN-JUNE, 2024

The adventure begins in classrooms across the country. Kart kits will be shipped to schools, and students will gain access to our state-of-the-art Online Race Academy.

Race Academy Online
SEP, 2024

The STEM Prix Grand Final event commences. Schools from across the nation will compete for bragging rights, showcasing their karts and racing skills. The event is combined with a STEM educational fair.

STEM Prix Grand Final
SEP, 2024

TBC

Contract Signed

Contract signed and deposit paid. School will receive STEM On Track Launch Pack including; Media Pack, Sponsorship Guide and Proposal Template.

JULY, 2024

Launch Event

We kick off the STEM On Track journey with a spectacular launch event during the British Grand Prix. STEM Workshops provided by Espire to showcase the content.

MAY, 2025

Kart Test Day

Schools experience the thrill firsthand in March 2025 as teams have the opportunity to put their creations to the test at Whilton Mill. Students can fine-tune their karts and prepare for the ultimate showdown.

