



STEM ON TRACK

**STEM
ON TRACK**
PROGRAMME PROSPECTUS

Prospectus
2026/27

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WHAT WE DELIVER

55

Hours of core content per student.

100+

Gamified Educational Courses

39

Weekly, structured practical sessions

STEM On Track is a year-long, student-led STEM programme that combines real-world, hands-on learning with curriculum-linked digital modules in Science, Maths, and Design. With no planning required and no prior mechanical experience needed, students build a full-size racing kart using step-by-step video guides and learn the STEM theory behind each component through our interactive online Race Academy.

The programme is simple to run, fully supported, and designed to be delivered as a co-curricular club or timetabled lesson. It culminates in on-track racing events, including a Test Day, STEM and Careers Fair, and National Finals, providing unforgettable, real-world inspiration and practical experience.

BUILD



Each school receives a full kart kit and tools in September. Over 39 practical sessions, students follow step-by-step video tutorials to build their own kart from bare chassis to a fully assembled racing kart. The process covers real-world engineering skills, from installing braking systems to fitting engines. At the end of the year, teams dismantle their kart ready for the next cohort, ensuring the programme remains sustainable and accessible year after year.



Eco-Conscious Kart

- ✔ Second-hand tyres, pre-used but with plenty of life left.
- ✔ 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 physics at work.
- ✔ Deliberately unfinished engine, to be understood and completed.
- ✔ Adjustable pedal system to fit different sized drivers.

SCHEME OF LEARNING

STEM On Track: Scheme of Learning

Half-Term	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
ATT1	Assemble + Fit Axle Bearings Friction	Assembling Brake Disk Energy Transfer	Centering Rear Axle Symmetry	Positioning Stub Axles Bearing Angles	Centering Steering Column Rotation	Fitting Track Rods Pivots & Moments
AT2	Fitting Steering Wheel Ackermans Steering Radius & Circles	Securing Floor Tray Vibration	Mounting Sprocket Carrier Circumference	Fitting Rear Bumper Elastic Potential Energy	Constructing the Pedals Levers	Fitting Brake System Cylinders + Volume
SP1	Constructing Brake Line Measurements	Fitting Brake Bar Third Law of Motion	Bleeding the Brakes States of Matter	Assembling Throttle Cable Fire Triangle	Completing the Seat Fitting Percentages	Mounting the Side Pods Polymers
SP2	Mounting the Front Pod Impact Force	Fitting Nassau Panel Air resistance and aerodynamics	Fitting the Air-Filter & Exhaust Combustion	Fit Clutch & Spark-Plug Centrifugal/Centripetal Force	Securing the Engine Mount Properties of Metals	Aligning Sprocket & Chain Ratio
SM1	Drilling Chain Guard Inertia	Fitting Wheels & Tyres Compound Measures	Applying Sticker Kit (1/2) Heating & Softening	Applying Sticker Kit (2/2) Adhesives & Glue	Starting Engine Magnets / Circuits	Bolt Check Torque
SM2	Inspect & Clean Emulsifiers	Refine Front Tracking Trigonometry	Transponder Holes Place Value	Setting Tyre Pressures Correlation	Adjusting the Wheel Track Centre of Gravity	Adjusting the Ride Height Proportion

LEARN



Every build practical is backed by curriculum linked, STEM learning, connecting classroom theory to engineering, teamwork, and problem-solving.

This is facilitated through the Race Academy Learning Management System (LMS). Which keeps teams organised and supported with:

- Easy-to-follow modules that can run as a co-curricular club or timetabled lesson
- Student progress tracking, quick quizzes and structured assessment for learning
- Curriculum-mapped additional roles including, Designer, Engineer and Marketeer

Race Academy is where your team learns, builds, and preps for race day, one module at a time.



ENGINEER



MARKETEER



DESIGNER

RACE ACADEMY CLUB SHOP RESOURCES DASHBOARD LOG OUT Search lessons...

James Foster Le-Grys
Student Designer

BADGES

RANK
Loading...
[View Leaderboard](#)

BWT ALPINE
FORMULA ONE™ TEAM

ASSEMBLE & FIT THE TRACK RODS
06
Gold | Build | 35 mins
[Start Lesson](#)

COMING UP NEXT
06B Track Rods
Gold | Build | 35 mins
[Start Lesson](#)

UNBOXING & SET-UP
00B Unboxing
Bronze | Build | 30 mins

AXLE BEARINGS
01B Axle Bearings
Silver | Build | 25 mins

BRAKE DISK
02B Brake Disk

AXLE BEARINGS
01L Axle Bearings
Bronze | Learn | 15 mins

BRAKE DISK
02L Brake Disk
Silver | Learn | 15 mins

REAR AXLE
03L Rear Axle

TEAMS LEADERBOARD

Rank	Name	Average Score
1	Cadent Girls on Track	634
2	Cleeve Two - Ontic	630
3	SCA Team Technology	612
4	Hastings Blackout	549
5	Cleeve One - Green Gourmet	533
6	GreenSTEM Education Australia	433
7	Surrey Hill Dragons	393
8	THA Motorsport	358
9	SMM Apex	354
10	Latin Velocity	340
57	STEM Heroes	55

TEAM RANKINGS

Designer Lessons - Specialised content for your role

BUILD YOUR BRAND
01D Build Your Brand
Sprints | 10 mins

DESIGN YOUR LOGO
02D Design Your Logo

GRAPHICS KIT MASTERCLASS
03D Graphics Kit Masterclass

BRAND EVERYTHING
04D Brand Everything

DESIGN SHOWCASE
05D Design Showcase

Build courses to show kart assembly...

Gamified competition that drives engagement...

Learn courses that link the STEM theory...

'Role' content to expand skillset and group size...

RACE



After months of building, learning, and solving problems together, it's time for teams to put their karts and their teamwork to the test.

QUALIFYING TEST DAYS

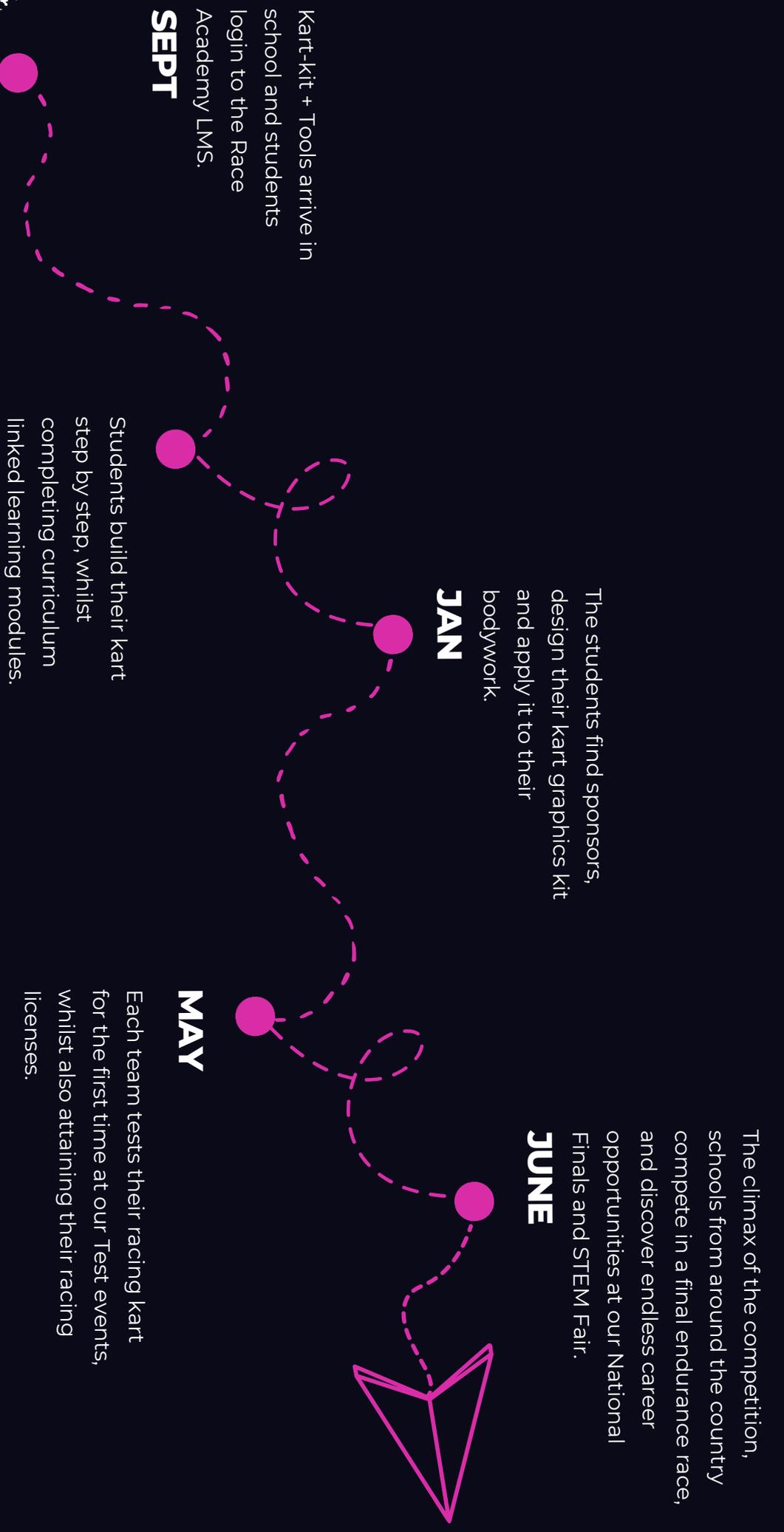
- Students bring their self-built karts to the track for the first time, get hands-on driving tuition, and make those all-important tweaks. It's where the learning hits the tarmac.

NATIONAL FINALS

- The top 75 to 100 teams qualify for our flagship event, the STEM On Track National Finals. They race head-to-head for the title. Every team, even those that didn't qualify, are invited to attend the event, explore the STEM Fair, and celebrate the journey.
- Alongside the racing, students meet real people working in STEM and motorsport. From engineers to designers to data analysts, it's a window into the world they've been learning about all year.

STUDENT JOURNEY

2026 Programme Prospectus



DESIGN

Every team designs their own kart graphics, turning blank bodywork into something bold, brilliant, and uniquely theirs. From colours and logos to full wraps, students learn what it takes to make their team stand out, on and off the track.

But design isn't just about looking good. We also teach students how to attract and work with real-world industry partners. Our five-module sponsorship course includes editable proposal templates, email scripts, explainer videos, and guidance on how to create a winning pitch.

Sponsoring partners aren't just names on the side of the kart, they're part of the journey. All school partners receive VIP tickets to attend race events, meet their team, and see the impact of their support first-hand.



Our National partner...

BWT
ALPINE
 FORMULA ONE™ TEAM



We're proud to be working with the BWT Alpine Formula One Team, who support STEM On Track as our official National Partner. Their involvement gives students something you can't manufacture: real-world relevance. From engineering insight to exclusive access, their backing brings elite motorsport directly into the classroom.

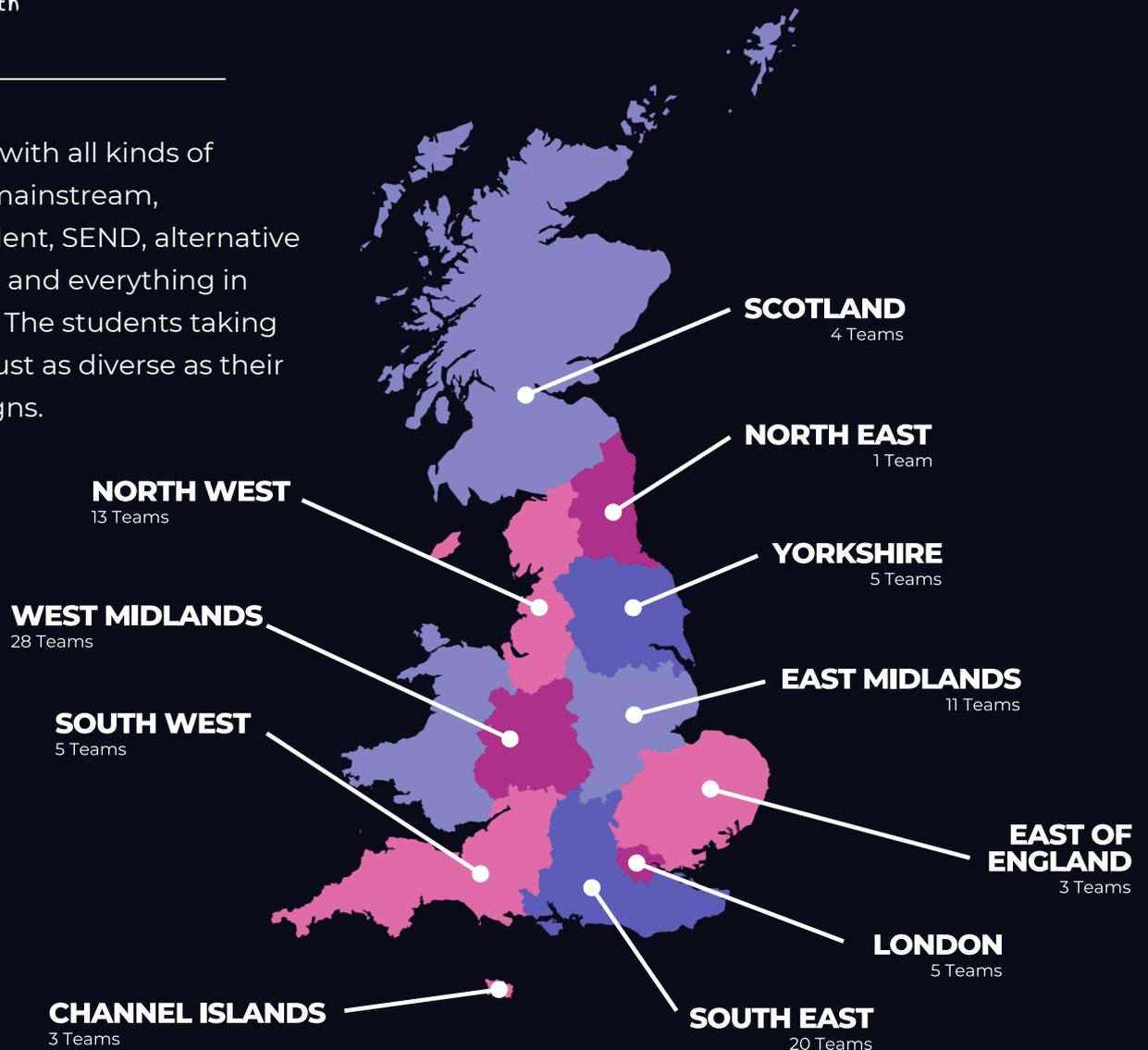
Students gain access to industry role models, learn how top-tier teams operate, and even get to meet BWT Alpine Formula One Team's staff at our National Finals. For some learners, it's the first time they've ever seen themselves in STEM and that moment matters.

Together, we're building a pipeline that connects education, inspiration, and opportunity. Because talent should decide your future, not your postcode.

WHO

we work with

We work with all kinds of schools, mainstream, independent, SEND, alternative provision, and everything in between. The students taking part are just as diverse as their kart designs.



WHY IT WORKS FOR ALL

The programme is designed to be incredibly flexible and easy to run. Zero planning required, everything is pre-planned and delivered through the Race Academy platform.

Whatever setting, STEM On Track delivers the same outcomes: students build real skills, understand real STEM, and discover what they're capable of.

OUR SCHOOLS ARE:

- 70% Non-Specialist State School
- 14% Independent
- 12% SEND or Alternative Provision
- 4% Home-Ed / Charity Sector

SCHOOL

case studies

School: Salford City Academy
Students Impacted: 60 students
Location: Salford, Greater Manchester
Industry Partner: Farrat

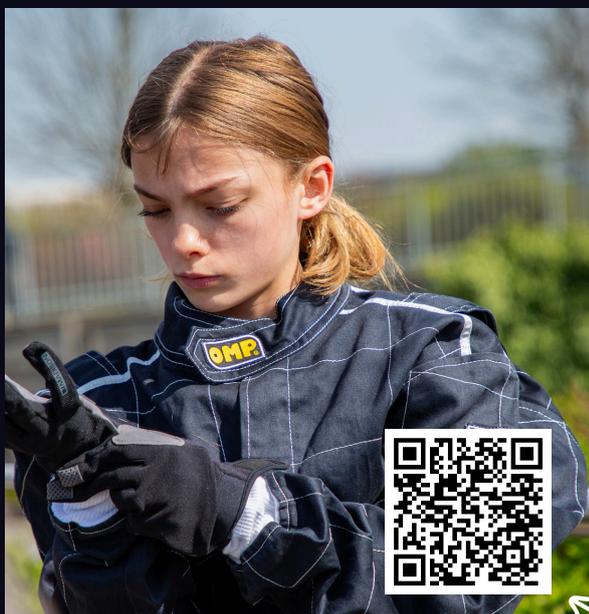
Salford City Academy embedded STEM On Track into their Year 7 Pioneer Group, a specialist STEM pathway designed to engage students in a bespoke Science, Technology and Maths curriculum.

STEM On Track has become essential to the Pioneer Group's success, and is being used as a recruitment tool with feeder schools.



Listen to Andrew's STEM On Track experience

"We've got a waiting list to join for next year, and a large part of that is due to the [STEM On Track] kart. There's loads of students that want to join the Academy now to get onto the programme" — Andrew, Teacher



School: Corley Academy
Students Impacted: 35 students
Location: Corley, West Midlands
Industry Partner: Stellantis

Corley Academy, a specialist SEN school, runs two STEM On Track teams, with the support of Stellantis Performance Academy giving students with special educational needs meaningful access to hands-on engineering and national-level competition.

The partnership with Stellantis was organised as part of our partnership outreach and school match-making service.

Hear from Rebecca at Stellantis

PARTNER

With STEM On Track

When you partner with STEM On Track, you're investing in the next generation of STEM while delivering measurable value for your organisation. Our partnerships go beyond logos, they create meaningful connections that transform lives.

Support a single school and change the trajectory of 30 young people in your local community; deep, personal, transformational. Or become a national enterprise partner and drive community and societal change across the UK, amplifying your reach while maintaining that same direct, student-level impact at scale.



Organisations supporting our schools.

WHAT YOU GET

- **Branded Kart Livery:** Your brand on team karts throughout the year. Students design, apply, and race with your livery.
- **VIP Finals Tickets:** Exclusive tickets to meet your teams, witness their success, and network with industry leaders.
- **Year Round Content & Stories:** Compelling visuals, testimonials, and impact stories for your marketing and CSR communications.
- **Employee Engagement:** Mentoring, speaking opportunities, school visits, STEM Fair attendance and race day participation.
- **Partner Network:** Join Alpine F1, schools, and forward-thinking organisations committed to social mobility.



Social

IMPACT

Every £1 invested in STEM On Track generates up to £33 in social value.

STEM On Track doesn't just inspire students, we deliver quantifiable social value backed by industry-standard methodology. Our impact metrics are audit-ready, procurement-compliant, and built for organisations that need evidence, not just stories.

SOCIAL RETURN ON INVESTMENT

- Up to £33.2:1 Social Return on Investment (SROI) ratios across partnership tiers
- £275,945 - Annual social value generated per school team
- We operating nationally, reaching 1,650+ students per year
- Above-average participation from girls and students receiving Free School Meals

TENDER-READY SOCIAL VALUE

Our social value calculations are designed for procurement and tender submissions. Every metric follows TOMS (Themes, Outcomes, and Measures) Framework methodology, the UK's national standard for social value measurement.

REAL-TIME IMPACT REPORTING

Access your personalised partner dashboard for live social value metrics, impact reporting, and programme updates.



STEM ON TRACK

Whether you're fired up to bring STEM On Track to your school, want to talk through the programme, or just need to know how it all works, get in touch.

✉ Email us: info@esquireeducation.co.uk

☎ Call James: 07585 721939

☎ Call Adam: 07814 274241

To find out more about STEM On Track, become a programme partner or join us on the grid for 2027, visit our website by scanning the code below.



Visit our
website

