MULBERRY
STEM ACADEMY

IN PARTNERSHIP WITH
MERCEDES-BENZ GRAND PRIX

STRATEGIC PLAN 2025-2028

Published: Autumn 2025

Mulberry Schools Trust

Mulberry School for Girls

Mulberry UTC
Where learning works

Mulberry Academy Shoreditch

Mulberry Stepney Green Maths, Computing and Science College

Mulberry Wood Wharf Primary

Mulberry Academy Woodside

Mulberry Canon Barnett Primary

Mulberry Academy London Dock


AMG
PETRONAS
FORMULA ONE TEAM

INTRODUCTION

The Mulberry STEM Academy is a place of learning, inspiration and innovation in the fields of technology, maths, engineering, physical science and design. It was set up in Autumn 2020 by the Mulberry Schools Trust (MST) in partnership with Mercedes-Benz Grand Prix Ltd – two high performing organisations in their respective fields of education and motorsports. The academy is a powerful supplementary provision providing a specialised track for children and young people aged 7 to 18 who have talent, passion and aptitude in STEM (science, technology, engineering and maths) education. We are now in cohort six of the programme, following a further three years of funding from Mercedes Grand Prix, taking us to 2028.

We remain committed to our founding vision. Our academy is a place where the UK's future inventors, designers, analysts, technicians and entrepreneurs can further develop their talent, passion and aptitude for STEM and stretch their academic and technical capabilities. Programmes are wide and extensive, but include work experience, technical practice, mentoring, networking, access to workshops, conferences and webinars. Imagination, innovation and invention combined with aspiration, agility and ambition are the characteristics developed within our learners, so they leave us determined to make their mark in STEM and bring wider benefits to society, both economically and socially. We fully embrace the Mercedes-AMG PETRONAS F1 Team's values of Passion, Respect, Innovation, Determination and Excellence. Our primary mission is to open the potential for employment in the team, and in motorsports.

Graduates of the Mulberry STEM Academy leave with a passport into engineering, design and science-based industries. They make a positive lasting contribution to engineering, design, technology and science - not just because of the rewards in leading cutting-edge practices, but also because there is a beauty in high performance engineering of any kind, and a personal fulfilment in being the best at what you do.

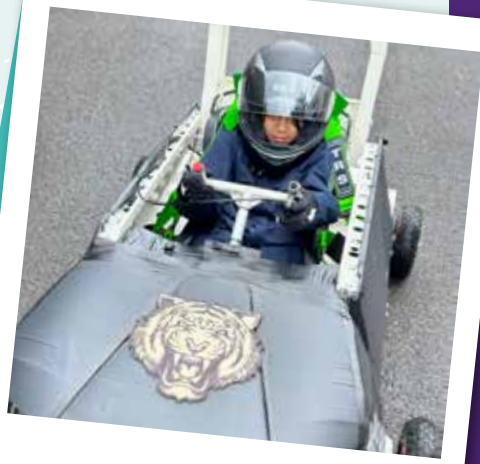
Our curriculum, implemented after school, at weekends and during school holidays is developed around developing technical skills, teamwork and problem solving. Specifications are co-constructed with engineers, and focused on progression into the next stages of STEM, whether this be from GCSE to A Levels in science, from A Levels to degrees in all branches of engineering, or through our alumni network which continues to develop opportunities for networking, support for careers and specialist guidance on how to get into a career in F1.

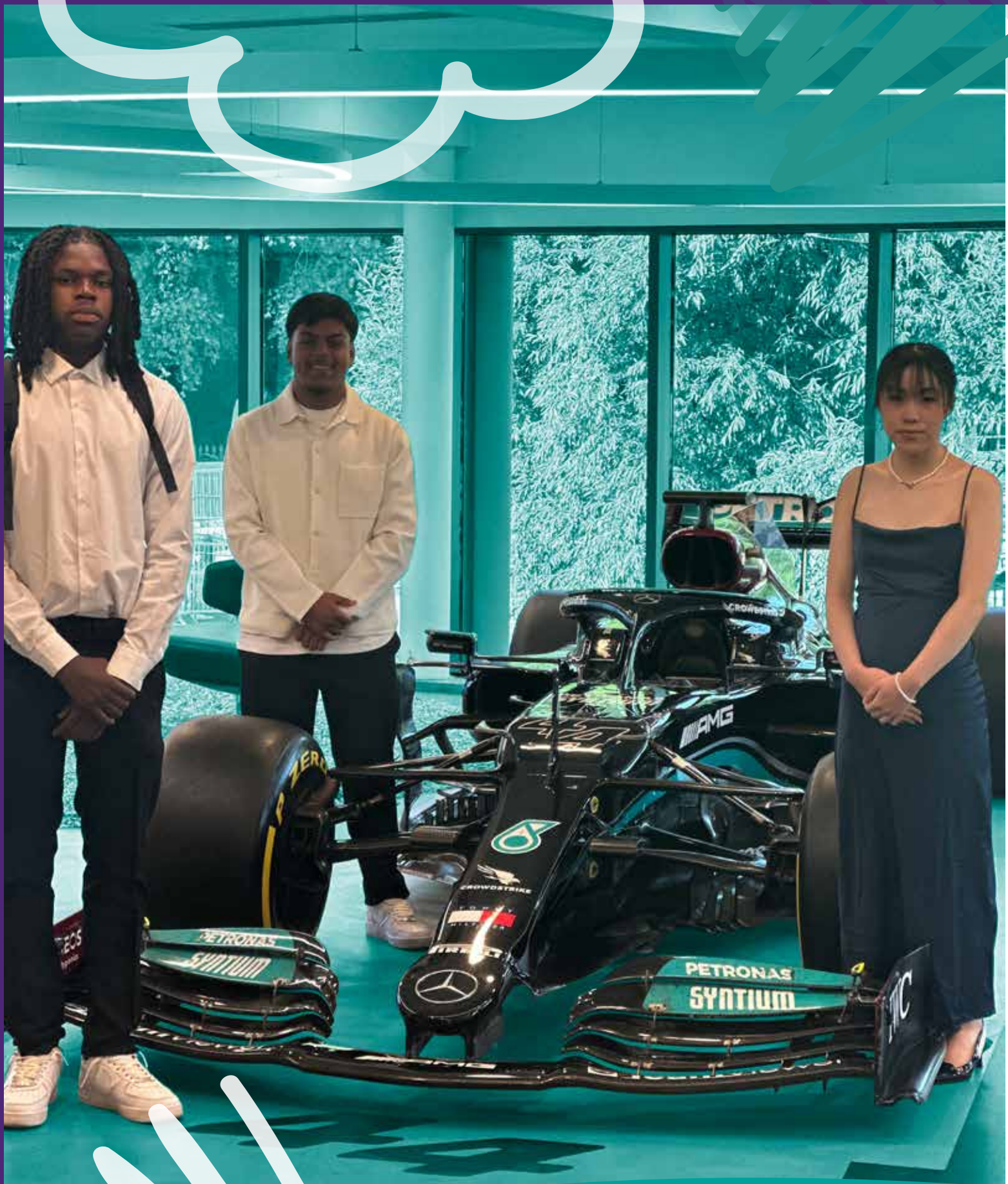

F24
F24+


In Performance

To date, the academy has had immense successes.These include:

- Over 250 young people, aged 7-19, from multiple schools engage in weekend and holiday activities.
- **We enter several teams in Greenpower races.** Greenpower is an educational charity that promotes engineering and sustainability, through a design, build and race car project. We have teams in Goblin (8–10-year-olds), F24 (11–16-year-olds) and F24+ (16+). In most years we have had multiple teams in the International Final at Goodwood, including winning in 2023, and being in the top five the last few years. We are also a Greenpower *Centre for Excellence* for London, sharing best practice with other schools through outreach work.
- **5% of our large Sixth Form cohort now study Engineering at university**. This compares to 1% in 2019. Other STEM subjects such as Maths, Physics and Computer Science included is 12% (4% in 2019).
- **Our STEM subjects at A Level have shown transformational change in student numbers**, for example Physics (6 in 2019, to 49 now), Maths (46 in 2019 to 185 now) and Computer Science (not taught in 2019, 37 now).
- **Our GCSE grades in Biology, Chemistry and Physics have improved by a grade since the programme started**, and with much higher numbers. In 2025, 47% of our academy students achieved grade 7 or higher in all STEM subjects. Our results in Biology, Chemistry and Physics GCSE are 22-25% above national at 7+, 33% above national in Computer Science and 47% above national in Maths. Of these students, 70% are now studying A Levels in STEM subjects and the majority at one of the Mulberry Schools Trust Sixth Forms..
- **Students have had life changing opportunities including attending Silverstone, the Dutch Grand Prix, enrichment trips, university trips, residential work experience** (for 24 students for a week at the Mercedes team factory in Brackley). They have had extensive opportunities to develop professional networks they would not otherwise have gained.
- **This year several of our alumni network applied for industry year placements in the F1 field.**
- **The programme has had wider impact on staff recruitment and retention in STEM subjects**, through opportunities to take on leadership roles within the academy as well as visits, engagement with engineers and high-quality professional development. It has also enhanced career progression for support staff – technicians, administrators, mentors – who have played a critical role in the success of our students.
- **In 2024, 12 students with parents and carers visited the team factory in Brackley** – 35 adults in total as part of the PRIDE winners' awards.
- **Our Mulberry STEM Academy students have achieved a range of additional qualifications**, depending on age including the British Association of Science CREST awards at Star, Superstar, Bronze (Key Stage 3), Silver (Key Stage 4) and Gold (Key Stage 5), Geeky Kids Python Programming qualification, Robotics and Extended Project Qualification (0.5 of an A Level, and highly desirable for universities).




AMG
PETRONAS
SYNTIUM
PETRONAS
SYNTIUM

Our strategy for 2025-2028 builds on these successes, and aims to be even better, creating greater impact and scaling up, whilst remaining committed to our core offer. Our areas of work include:

- **Increase the numbers of students studying Engineering at University to 8% by 2028**, or 50 students. Aim to increase higher tariff Universities to 50%, including Oxbridge.
- **Develop a flourishing alumni network** – of students who studied Engineering and who are interested in careers in motor sports – 30 students by 2028 and support them intensively into industry year placements in F1.
- **Improve outcomes further at A Level**, particularly in Physics.
- **Conduct outreach work in other schools in London**, particularly primary, but also in our new hub in East Sussex, creating technical pathways into industry.
- **Develop a portfolio of industry and university informed engineering projects**.
- **Recruit a technician for the STEM Engineering laboratory and train other staff in project implementation.**
- **Develop and build a scratch build car for the Greenpower competition**.

Leadership and Management structure: Mulberry STEM Academy

Each of our three 11-19 secondary schools leads a specific area of the strategic plan. They are supported by colleagues in each school who have leadership and management responsibility for delivering CREST, EPQ and Greenpower activities.

Strategic Lead

Dr Stuart Mundy, Chief Officer for Performance and Operations, Mulberry Schools Trust

Strategic and Operational Leads

Jennie Montgomerie, Senior Deputy Principal, Mulberry Academy Shoreditch

Lauren Gillot, Lead Practitioner, Mulberry Academy Shoreditch

Oversee recruitment, all curriculum and quality assurance, development of projects, enrichment, rewards and East Sussex hub.

Alumni and Employer Links

Yumna Khanam, Assistant Headteacher, Mulberry School for Girls

Oversees Alumni network and employer links. Leads the Mulberry STEM Academy programme within primary schools.

STEM Engineering Laboratory

Zumon Choudhury, Headteacher, Mulberry Stepney Green

Paramjit Bhutta, Executive Headteacher, Mulberry Stepney Green

Lead and manage the STEM Engineering Laboratory, including recruitment of technician, project development and implementation plan including scratch build car.

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