

MULBERRY STEM ACADEMY

IN PARTNERSHIP WITH 
MERCEDES-BENZ GRAND PRIX

IMPACT REPORT

COHORT 3

Published Autumn 2024



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



YEAR 13 ACHIEVEMENTS



A total of 46 students in Year 13 completed the Mulberry STEM Academy programme and achieved their A Level grades in the summer 2024. It is particularly pleasing to note that the average A Level grade was a B-, an improvement of one grade from 2023, where the average was a C. Key highlights include:

- 43% of students achieved an A* or A grade in A Level Maths and 50% in Computer Science
- Average grade has improved in all STEM subjects but with Maths and Computer Science being the strongest areas
- A significantly higher number of students achieved their EPQ with higher grades compared to 2023, with a 10% increase in A*-C grades and a 21% increase in A*-B grades. This improvement reflects enhanced teaching and supervision, as well as a better understanding of the requirements for achieving top grades. 24 students attended a residential work experience placement at Mercedes-Benz Grand Prix Ltd headquarters in Brackley.
- Teams from all schools raced in several Greenpower races across the country
- 70% of the students have progressed to degree courses in STEM subjects, including Science, Maths, Computing or Engineering
- 30% of students have progressed on to specific Engineering degree courses

IN TERMS OF SUBJECTS:

A Levels

Subject/%	A*/A	A*-B	A*-C	Average grade
Chemistry	20 National 33	45 National 55	60 National 73	C (D+ 2023)
Physics	7 National 32	45 National 51	60 National 70	C (D+ 2023)
Maths	43 National 42	62 National 61	86 National 77	B (C 2023)
Computer Science	50 National 24	75 National 46	94 National 85	B (2023 B)
Further Maths	50 National 41	63 National 59	88 National 90	B
EPQ	44 National 47	67 National 70	86 National 86	B

HIGHEST ACHIEVERS:

NA AAA
HAH ABB
AAJ AAB
AM AAB
TB A*AA
ZC A*ABC

MSI AAA
MS A*A*AB
NA AAC
FB AACCC
JJ A*AAAC
SK ABBC

LM A*ABB
SR ABC
NT A*AA
MU A*A*A*A
FZ A*A*A*A*
AY AAA

MI A*AA
SK A*AA
MS ABB

Full list of destinations below:

Destination	Course
Kings College London	Computer Science
Queen Mary University of London	Computer Science
Kings College London	Electronic Engineering
City, University of London	Mechanical and Design Engineering
Kings College London	Engineering
Queen Mary University of London	Aerospace Engineering
Queen Mary University of London.	Civil and infrastructure Engineering
Kings College London	Computer Science
University of East London	Pharmacology
Gap Year	Gap Year
Amazon. Kings College London or Degree Apprenticeship	Mechanical Engineering-
University of Greenwich	Computer Science
Degree apprenticeship, Ministry of Defence	Software Engineering
Queen Mary University of London	Mechanical Engineering
University of Westminster	Biomedical Science
Kings College London	Engineering
Goldsmiths, University of London	Software Engineering
City, University of London	Mathematics and Finance
Queen Mary University of London	Mathematics and Statistics
Degree Apprenticeship	Data Analyst, Digital and Technology Solutions
University College London	Computer Science
Middlesex University	Computer Science
London South Bank University	Mechanical Engineering
Queen Mary, University of London	Computer Science and Mathematics
Repeat Year	Repeat Year
Gap year	Gap year
University of Surrey	Veterinary Medicine
SOAS University of London	Law , SOAS University of London
Repeat year	Repeat year
Islamic Studies	Islamic Studies
London South Bank University	Forensic Science
Kings College London	Biomedical Engineering
Kings College London	Computer Science
Queen Mary University of London	Robotics
Kings College London	Maths
University of Oxford	Biochemistry
Kingston University	Radiography
University of Greenwich	Computer Science
University of Westminster	Biomedical Science
University of East London	Biochemistry and Biotechnology
University of Greenwich	Physical Education and Sport
Queen Mary University of London	Biological Sciences
University of Greenwich	Psychology
London South Bank University	Therapeutic Radiography

KEY STAGE 4 COHORT



In 2024, 61 Year 11 Mulberry STEM Academy students from Cohort 3 completed their GCSE exams. The average grade for these students was 6.6, nearly two grades higher than the national average grade of 4.8. Results in Biology, Chemistry and Physics were particularly impressive, with top grades surpassing the national average by more than 20%.

- Biology 9-7 66% (national 42%), 91% 9-5 (national 79%)
- Chemistry 9-7 71% (national 45%), 9-5 94% (national 80%)
- Physics 9-7 66% 9-7 (national 44%), 9-5 94% (national 80%)
- Maths 9-7 60% 9-7 (national 27%), 9-5 89% (national 43%)
- Computer Science 59% 9-7 (national 28%), 79% 9-5 (national 57%)

HIGHEST PERFORMERS:

Over half the group achieved 7+ in STEM subjects

- 9 students achieved grade 9 in three or more STEM subjects
- 20 students achieved grade 8 or 9 in three or more STEM subjects

ADDITIONALLY, ALL STUDENTS PARTICIPATED IN:

- A course in robotics
- A Python programming qualification
- CREST Silver Award
- Greenpower races across the country in the F24 races



KEY STAGE 2 SUMMARY

Taster days and outreach work took place in several primary feeder schools within Tower Hamlets.

Twenty-five children from Year 5 (aged 9-10 years) at Mulberry Canon Barnett Primary graduated from the Mulberry STEM Academy. Their year long programme included:

- **CREST Superstar Award** – Ten, one hour challenges related to STEM, developing children's problem solving and team work and encouraging children to think and behave like scientists and engineers)
- **Goblin Greenpower project** – Children worked in teams and designed, built and raced the Goblin car over six Saturday morning sessions.
- **Robotics and programming** – Children learnt programming and coding skills through a weekly class.



WORK EXPERIENCE

Twenty-four students took part in a week-long residential work experience placement at the Mercedes-Benz Grand Prix Ltd headquarters. They worked across various departments, engaged with graduate engineers, and gained valuable insights into the industry.





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