## OVERVIEW OF MATHS PATHWAYS

It is compulsory for pupils to study maths from primary school to the end of key stage four. There is a standardised curriculum up to key stage 3. Most pupils then take GCSEs at foundation or higher tier.


Post-16 options include academic routes such as A-levels, which prepare for university, and other vocational and technical routes.

Undergraduate

-     - 9,600 students per year enrol on an degree (2\%)
Course content varies by university

International students
• $17 \%{ }^{*}$ of the total
undergraduate undergraduate cohort

Postgraduate

- -5,600 students peryear enrol ona postgraduate maths degree (5\%) Course content varies by university
Vocational and technical
maths routes (8\%)
Maths-based vocationa
qualifications (7\%)
Around a third of all vocational
qualifications are maths-based
Maths-based T-levels (1\%)
    - All T-levels contain some
elements of maths
Vocational non-maths routes
employment (49\%)
Not in education, employment
or training (6\%)


## Post-16

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KS5: Academic maths
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KS5: Academic maths
routes (16%)

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## \# students

591,000 to 614,000 per year
Examinations / Grading:
Foundation and higher tier exams
Illustrative curriculum progression
Pure Maths: Fractions

- Calculate with roots, fractional indices and recurring decimals (e.g. $8^{\wedge} 2 / 3$ )
- Manipulate algebraic expressions involving fractions
- Fractional scaling (in geometry)

Statistics: Representing data - Apply statistics to describe a population

- Interpret univariate distributions (e.g. graphs, averages, range)
- Interpret bivariate data (e.g. correlation, extrapolation and interpolation)

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Academic non-maths routes
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Academic non-maths routes
i.e. other A-levels (21%)

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Functional Skills Maths

- Alternative for those unlikely to pass and/or failed GCSE maths
across all subjects
Surce.National Puoli Database, other UK Govermment data sources, a s of academic year 2021-22; A W World Class Education
System: The Advanced British Standard, Oct 2023, Department for Education

There is a 'wave' of up to 50,000 extra children per year in key stages 2 and 3 working their way through the school system

[^0]

Age


[^0]:    and not directly based on actual student volumes

