



# MATHEMATICS KEY STAGE 5 SCHEDULE

# 2024-2026

## COURSE

### Exam Board and Specification

We follow the MEI syllabus, which is administered by the OCR examination board.

### Course Title

MATHEMATICS B (MEI) H640

### Assessment

3 examination papers at the end of year 13

Paper 1 : Pure Mathematics and Mechanics, 100 marks, Calculator allowed. 2 hours.

Paper 2 : Pure Mathematics and Statistics, 100 marks, Calculator allowed. 2 hours.

Paper 3 : Pure Mathematics and Comprehension, 75 marks, Calculator allowed. 2 hours.

The first two papers are split into two sections, with the first sections being comprised of questions which involve minimal reading and interpretation and the second sections involve longer questions and more problem solving.

Within the examinations there will be questions related to some pre-release material, which is a 'Large Data Set'. Students will work with this throughout the Statistics elements of the course, becoming familiar with the data and the skills that will be assessed in the examinations.

## EXAMS

## WHEN

PAPER 1 : PURE MATHEMATICS AND MECHANICS	JUNE 2026
PAPER 2 : PURE MATHEMATICS AND STATISTICS	JUNE 2026
PAPER 3 : PURE MATHEMATICS AND COMPREHENSION	JUNE 2026
IT SHOULD BE NOTED THAT THERE WILL BE INTERNAL TESTS AND EXAMS TO TRACK PROGRESS THROUGHOUT THE TWO YEARS.	

## PROJECTS/SCHEME OF WORK/TOPICS

## DURING

TEACHER 1: SURDS, QUADRATIC EQUATIONS, EQUATIONS, POLYNOMIALS, GRAPHS, BINOMIAL EXPANSION, EXPONENTIALS. DATA COLLECTION, DATA PROCESSING, PRESENTATION AND INTERPRETATION, PROBABILITY, BINOMIAL DISTRIBUTION, HYPOTHESIS TESTING	YEAR 12
TEACHER 2: PROBLEM SOLVING, COORDINATE GEOMETRY, TRIGONOMETRY, VECTORS, DIFFERENTIATION, INTEGRATION, KINEMATICS, FORCES AND NEWTON'S LAWS OF MOTION, VARIABLE ACCELERATION	YEAR 12
TEACHER 1: DIFFERENTIATION, VECTORS, KINEMATICS, PROJECTILES, SEQUENCES AND SERIES, FURTHER DIFFERENTIATION, INTEGRATION, PARAMETRIC EQUATIONS, PROOF, DIFFERENTIAL EQUATIONS, FORCE AND MOTION, FRICTION, MOMENTS	YEAR 13
TEACHER 2 : FUNCTIONS, TRIGONOMETRY, TRIGONOMETRIC FUNCTIONS AND IDENTITIES, ALGEBRA, PROBABILITY, PROBABILITY DISTRIBUTIONS, HYPOTHESIS TESTING, NUMERICAL METHODS.	YEAR 13

## OTHER INFORMATION

### Textbooks

We use the MEI series of textbooks published by Hodder Education.

### Calculators

Students will require a new calculator which have statistical tables (these will hopefully be sold by the school at a cheaper cost than the shops – we recommend the Casio FX-991ex).

### Homework and Revision

Homework tasks often involve completing exercises from the above textbooks as well as completing topic review sheets written by MEI. Pupils also have access to the resources on [www.mymaths.co.uk](http://www.mymaths.co.uk). Past papers are available to download from [www.mei.org.uk](http://www.mei.org.uk).

### Contacts

If you have any queries, please telephone the school or contact Mr Boxall via email using [ben.boxall@tbshs.org](mailto:ben.boxall@tbshs.org).