



Subject: Maths

Head of Subject: Mr N Hobbs

Year: Eight

Organisation of the Subject
 Maths is taught in mixed form groups of 28. The students have 3 of lessons per week, each of 1 hour.

Key Concepts (The big ideas underpinning the subject)	Key 'Learning Capacities' in this subject
<ul style="list-style-type: none"> Attain a sound understanding and use of algebraic concepts and uses Develop key numerical skills and confidence with numbers Ability to identify and use Mathematics in the 'outside world' Develop concepts of shape and space Gain an appreciation for the wide spread use of probability, statistics and data handling with an ability to analyse and discuss findings from a collection of data Develop reasoning, logic and application	<ul style="list-style-type: none"> Work independently to reinforce understanding and ability Seek assistance whenever required from their teacher Perseverance – especially if the work becomes challenging Awareness of the use of techniques learnt from previous years Work with others in the class (when appropriate) and gain mutual knowledge and insight

What will your daughter be learning?	How will your daughter be learning?
<ul style="list-style-type: none"> Number and Ratio - including the development of numerical knowledge into areas such as standard form and negative indices Algebra - introducing concepts of index rules and more complex linear equations Geometry and Measures - Pythagoras' theorem, transformations and volumes Statistics and Probability - concept of correlation and a mini project Functional Maths - addressed at various stages of the curriculum 	<ul style="list-style-type: none"> Develop ability to think and reason for herself Experimentation of solving unfamiliar problems using current knowledge Pair or small group work Practice of concepts and ideas Revision for tests and exams as well as consolidation, when appropriate Individual discussion with the class teacher

How will learning be assessed?	What can you do to support your daughter?
Major tests held on two or three occasions during the academic year End of year exam Monitoring and marking of homework Online assessments Classroom observation and interaction between teacher - pupil on a one-to-one basis	Encouragement to discuss matters with their teacher Seek additional help or practice if needed Request assistance from a sixth form A-level student or KS4 student under the Mathaid scheme Request additional practice/PowerPoints from online resources

Equipment needed for this subject	Extra-Curricular / Enrichment Opportunities
Pens, pencils, measuring equipment, calculator, textbook and exercise book required every lesson.	Entrance into the UK Junior Maths Challenge Additional help under the 'Mathaid' mentoring scheme Enrichment material provided by the teacher at appropriate times

If you have any questions about this Learning Overview, please contact your daughter's subject teacher in the first instance.