MATHS FACULTY

MATHEMATICS FACULTY – MATHS
YEAR 10 & 11

Topic(s) covered		
Mathematics is taught in a five year programme of study. Under the each of the six main strands the following topics are included: • Number - Fractions, percentages, ratio and proportion, indices and surds, standard form, decimals. • Algebra - Equations and identities, formulae, sequences, graphs, quadratics, inequalities. • Ratio, proportion and rates of change – Scale factors, compound units, direct and inverse proportion, using gradient to interpret rates of change, • Geometry and measures - Area and volume, transformations, circles, trigonometry, Pythagoras, vectors, constructions. • Probability – The probability of events, averages • Statistics – Collecting and displaying data The depth of study will be determined by the tier of entry. Mathematics is taught as a linear programme of study and is assessed by examination only (there is no coursework). The GCSE Mathematics exam consists of three papers taken at the end of Year 11: • one non-calculator paper • two calculator papers	• Mathswatch - https://vle.mathswatch.co.uk/vle/ is an excellent resource to help with classwork, homework and revision. All students are given individual logins and passwords. • A revision guide at the appropriate tier of entry is available from LRC. • A weekly maths homework club (for all students) is held on Wednesdays from 3.10 – 4.00pm in room A27. Maths teachers are available to help students on most days after school. • Mentoring is provided for students who are in danger of not achieving their target grades. • The exam board used for mathematics is Edexcel, specification details can be found here - http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html **Recommended websites** BBC Bitesize - https://www.bbc.co.uk/education/examspecs/z9p3mnb Corbettmaths – https://corbettmaths.com/ Dr Frost - http://www.drfrostmaths.com/homework/ Maths Genie - http://www.mathsgenie.co.uk/gcse.html Mr Barton - http://mrbartonmaths.com/students/gcse/ Nrich - https://nrich.maths.org/secondary-lower MATHS EQUIPMENT All students must attend lessons with pens (blue or black and green), pencil, long ruler, rubber, protractor, pair of compasses, **scientific calculator** and exercise book.	