Sackville School Maths Curriculum - Year 11



TERM	WHAT? (Is delivered?)	WHY? (Is this important?)	WHY NOW? (Why is this taught now?)	IMPACT? (What is the impact at the end of this half term?)	ASSESSMENT
Aut 1	Indices and standard form	 Students will build on their knowledge of powers and roots covered early to understand the rules of indices. Indices are useful in calculating repeated multiplication and/or division. The topic of Standard Form appears in other subjects, such as science and geography, and can enhance students' understanding in these subjects. Needed to beln and support 	 Work around powers and roots has been fully developed and the final element required on this topic is for students to understand the rules of indices. Students will be able to write and interpret very large and very small numbers in standard form and confidently use these in a range of contexts, including other subjects. Year 11 mock 1 will be taking 	 Students will be able to: Use and understand the different rules of indices. Know how to use and apply standard form. 	RAG of work, self/peer assessment, teacher marking, regular reviews of content covered to date
	Revise	students for the upcoming mock	place during this time of the year.		
Aut 2	Based on outcomes from assessments, each class teacher will write schemes of learning to cover topics students found most difficult. Vectors	 Students will have detailed feedback after the mock exams. Based on this feedback, class teachers will provide both bespoke and whole class work for students to help them improve on their areas of weakness and improve their grades. The study of vectors is important because of its many real-life applications e.g in navigation and computer programming, as well as its cross curricular links. 	 Students have completed their first mock Students have already leaned that a vector is involved in movement (translation) from the work on transformations. It is important that students understand what column vectors are and the information they give us 	 Students will be able to: Improve the topics and areas of weakness highlighted within their previous mock exam. Understand what a vector is. Represent vectors graphically. Add and Subtract column vectors. Multiple a vector by a scalar. Identify column vectors which are parallel. 	Mock 1 on all content covered to date, RAG of work, self/peer assessment, teacher marking, regular reviews of content covered to date
Spr 1	Rearranging equations, subject of the formula, simultaneous equations	 Often, equations are not written in the easiest format to use. This topic builds on the work on equations to help students understand that to find the value 	 Students have learnt how to solve equations; now we are rearranging equations where the value found for the unkown is also an unknown 	 Students will be able to: Rearrange the subject of the formula. Understand that simultaneous equations are the outcome found 	RAG of work, self/peer assessment, teacher marking, regular reviews of content

	Revise	 of a variable, the equation may need to be rearranged first. This can be applied to Physics, where students often have to rearrange their formulae in order to solve problems. Simultaneous Equations has links to graphs and enables students to solve real-life problems that would have been very difficult for them to answer previously. Needed to help and support students for the upcoming mock. 	 Students need to be able to solve problems where there multiple unknown values. This builds on the work studied earlier with singular unknown values. Year 11 mock 1 will be taking place during this time of the year. 	where two lines cross (graphically) and the solution where there are 2 unknowns to be found. • Be able to solve simultaneous equations algebraically.	covered to date
Spr 2	Based on outcomes from assessments, each class teacher will write schemes of learning to cover topics students found most difficult.	• Students will have detailed feedback after the mock exams. Based on this feedback, class teachers will provide both bespoke and whole class work for students to help them improve on their areas of weakness and improve their grades.	Students have completed their second mock.	 Students will be able to: Improve the topics and areas of weakness highlighted within their previous mock exam. 	Mock 2 on all content covered to date, RAG of work, self/peer assessment, teacher marking, regular reviews of content covered to date
Sum 1	End of year revision	 We will ensure that students have covered the entire GCSE curriculum by the time they reach term 3. This time can then be spent identifying and rectifying gaps and misconceptions. 	 Students will be able to go into their GCSE exams having had ample time to revise, practice and prepare. 	 Students will be able to: Revise for their upcoming GCSE Maths exam. Improve the topics and areas of weakness highlighted within their previous mock exam. 	RAG of work, self/peer assessment, teacher marking, regular reviews of content covered to date

Links to L4L Curriculum and Gatsby Benchmarks:

- Mathematics constantly applied to where it can be used within real-life situations and careers