The Mathematics KS4 Curriculum at TAL

"Without mathematics there is nothing you can do. Everything around you is mathematics. Everything around you is numbers." - Shakuntala Devi

Overview

In Phase 2, students build on the foundations secured during Phase 1 and develop their knowledge and skills to a GCSE standard. Although the units studied are the same for all cohorts of students, during Phase 2 students will begin to follow more closely either the ***Foundation*** or ***Higher*** strand. This allows for appropriate content to be covered to allow students to access either the Foundation paper (Grades 1 – 5) or Higher paper (Grades 3 – 9) at GCSE. Many of the units include a revisit of content from Phase 1 to ensure that the foundations, upon which students will build, are secure before the ideas are developed further. Again, in Phase 2, students study blocks of work that cover our five Golden Threads of **Number**, **Algebra**, **Ratio & Proportion**, **Geometry & Measure**, and **Probability & Statistics** and they continue to study a varied yet balanced curriculum.

Year 10

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Similarity**						**Developing Algebra**					
	Congruence, similarity and enlargement			Trigonometry			Representing solutions of equations and inequalities			Simultaneous equations		
Spring	**Geometry**						**Proportions and Proportional Change**					
	Angles & bearings		Working with circles		Vectors		Ratios & fractions		Percentages and Interest		Probability	
Summer	**Delving into data**						**Using number**					
	Collecting, representing and interpreting data						Non-calculator methods		Types of number and sequences		Indices and Roots	

Year 11

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Graphs**						**Algebra**					
	Gradients & lines		Non-linear graphs		Using graphs		Expanding & Factorising		Changing the subject		Functions	
Spring	**Reasoning**						**Revision and Communication**					
	Multiplicative		Geometric		Algebraic		Transforming & Constructing			Listing & describing	Show that...	
Summer	**Revision**						**Examinations**					