



Denton Community College

Departmental Curriculum Map

Subject: Maths

Year Group: Year 11



	Autumn 1	Autumn 1	Spring 1	Spring 2	
Topics	Number and Ratio	Geometric Reasoning	Area and Volume	Algebra	
What will students learn during this unit?	Place Value for decimals, measure and integers, ordering positive and negative integers and decimals, rounding, estimating, four rules of number, index notation, square and cube numbers, prime numbers, factors, multiplies, fractions of amounts, percentages of amounts, ratio notation, simplifying ratio, equivalent ratio. H - Surds + rationalising the denominator, fractional and negative indices H1, H2, F1 will do standard form	Solve problems involving angles. H1, H2, F1 will do Trigonometry. H1 and H2 will also learn Sine and Cosine Rule. H - apply and use circle theorems H1 - prove circle theorems	Interpret plans and elevations Use and apply circle definitions and properties Know and apply the formula for the area of a triangle, trapezium, parallelogram Find the volume of prisms (H - and cones spheres, H1 - frustums) H - find the area of a non right angled triangle	Iterative processes (H) Simplify expressions including expanding, factorising, with indices. Form and solve equations. Use coordinates and plot linear and quadratic graphs (H - recognise types of graphs) Straight lines (F1 parallel lines, H2 and H1 parallel and perpendicular lines)	
When will students be assessed?	SSDD after each component of learning	SSDD after each component of learning	SSDD after each component of learning	SSDD after each component of learning	

How will students be assessed?	SSDD (Same Surface, Different Depth) as a formative assessment.	SSDD (Same Surface, Different Depth) as a formative assessment.	SSDD (Same Surface, Different Depth) as a formative assessment.	SSDD (Same Surface, Different Depth) as a formative assessment.	
Key Vocabulary	Integer Tenth Hundredth Significant figure Factor Multiple Prime Index Cube number Square number	Parallel Hypotenuse Exterior Interior Translate Rotate Reflect Invariant Vector Congruent	Circumference Arc Radius Diameter Surface area Volume Cross section Units Perpendicular height	Iteration Solve Factorise Linear Quadratic Turning point Roots Function Composite Invers	
Homework opportunities to broaden or deepen student knowledge	Mathswatch - number and ratio	Mathswatch - geometry	Mathswatch - geometry	Mathswatch - algebra	
Links to the National Curriculum	Page53	Page 53-54	Page 53-54	Page 51-52	