



# Denton Community College 2019/20

## Departmental Curriculum Map Template

### Subject: Mathematics

### Year Group: Y10



	Autumn 1 Weeks 1 - 6	Autumn 1 and 2 Weeks 7 -	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topics</b>	Place Value and Number	Area and Volume	Statistical Reasoning	Proportional Reasoning	Sequences and Equations	Graphs
<b>What will students learn during this unit?</b>	Orders of Operations, Fractions, Reciprocals, Use of a Calculator, Estimation, Prime Factorisation, Indices, Standard Form, Recurring Decimals, Limits of Accuracy, Surds.	Plans and Elevations, Perimeter, Area of 2D shapes, Surface area, Volume, Pythagoras' Theorem, Trigonometry (F1, H2, H1).	Tables, Charts and Graphs of Data, Cumulative Frequency (H2, H1), Histograms (H2, H1), Averages, Scatter Graphs, Sampling.	FDP (F), Estimation (F), Ratio, Ratio and Graphs, Exchange Rates, Percentages, Compound Interest, Compound Units, Similar Shapes, Ratio & Fractions (H1), Direct and Inverse Proportion.	Basic Algebra, Solving Equations, Form and Solve, Rearranging Formulae, Inequalities, Quadratic Equations, Simultaneous Equations, Sequences, Algebraic Fractions, Iterations, Functions Algebraic Proof.	Co-ordinates (F2), Straight line and polynomial graphs, Real life graphs, Compound units, Regions (H1, H2), Transformation of graphs (H1, H2), Trigonometric graphs (H1, H2), Exponential function (H1, H2).
<b>When will students be assessed?</b>	At the end of each topic and the end of each module of work.	At the end of each topic and the end of each module of work.	At the end of each topic and the end of each module of work.	At the end of each topic and the end of each module of work.	At the end of each topic and the end of each module of work.	At the end of each topic and the end of each module of work.
<b>How will students be assessed?</b>	Classroom Assessment Booklet and Topic Tests.	Classroom Assessment Booklet and Topic Tests.	Classroom Assessment Booklet and Topic Tests.	Classroom Assessment Booklet and Topic Tests.	Classroom Assessment Booklet and Topic Tests.	Classroom Assessment Booklet and Topic Tests.
<b>Key Vocabulary</b>	BIDMAS, numerator, denominator, improper reciprocal, estimate factorise	2D, 3D, area, volume, units of measurement, faces, vertices, edges, elevation, perimeter, hypotenuse, angle.	Frequency, data, continuous, discrete, correlation, anomaly/outlier, line of best fit, mean,	Ratio, share, linear, percent, interest, depreciation, density, volume, mass, scale factor, enlargement.	Solve, equations, linear, quadratic, inequality, prove, intersect, formula, simplify, inverse	Quadratic, cubic, reciprocal, linear, gradient, area, inequality, axis, estimate, exponential,

	power/index/indices standard recurring, terminating error intervals surd, rationale.		median, mode, range, quartile, compare, sample, population, cumulative, frequency density.		operations, order of operations, substitute.	function, growth, decay, sine, cosine, tangent, curve,
<b>Homework opportunities to broaden or deepen student knowledge</b>	MathsWatch set online each week for all students.	MathsWatch set online each week for all students.	MathsWatch set online each week for all students.	MathsWatch set online each week for all students.	MathsWatch set online each week for all students.	MathsWatch set online each week for all students.
<b>Links to the National Curriculum</b>	<a href="#">Page 51</a>	<a href="#">Page 55</a>	<a href="#">Page 51</a>	<a href="#">Page 53</a>	<a href="#">Page 51</a>	<a href="#">Page 51</a>