



# Denton Community College

## Departmental Curriculum Map

**Subject: Mathematics**

**Year Group: Y10**



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topics</b>	Place Value and Number	Proportional Reasoning	Sequences and Equations	Statistical Reasoning	Graphs	Geometric Reasoning
<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	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	Tables, Charts and Graphs of Data, Cumulative Frequency (H2, H1), Histograms (H2, H1), Averages, Scatter Graphs, Sampling.	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).	Loci, Angles in Triangles (F2), Angles in Parallel Lines, Angles in Polygons, Bearings, Translation, Reflection, Rotation, Enlargement, Column Vectors, Circle Theorems (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	Ratio, Share, Linear, Percent, Interest, Depreciation, Density, Volume, Mass, Scale Factor, Enlargement	Solve, Equations, Linear, Quadratic, Inequality, Prove, Intersect, Formula, Simplify, Inverse	Frequency, Data, Continuous, Discrete, Correlation, Anomaly/Outlier, Line of Best Fit, Mean,	Quadratic, Cubic, Reciprocal, Linear, Gradient, Area, Inequality, Axis, Estimate, Exponential,	Loci, Bearings, Degrees, Translation, Reflection, Rotation, Clockwise, Anti-clockwise,

	Power/Index/Indices Standard Recurring, Terminating Error Intervals Surd, Rationale		operations, Order of Operations, Substitute,	Median, Mode, Range, Quartile, Compare, Sample, Population, Cumulative, Frequency Density.	Function, Growth, Decay, Sine, Cosine, Tangent, Curve,	Enlargement, Centre Point, Mirror Line, Vector, Circle Theorem, Alternate Segment Theorem, Circumference, Centre, Angles
<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 53</a>	<a href="#">Page 51</a>	<a href="#">Page 51</a>	<a href="#">Page 51</a>	<a href="#">Page 53</a>