



# Student Cycle Overview

***Excellence.  
No Excuses.***

The subject content for this achievement cycle is shown below.

At the end of the achievement cycle there will be an **assessment** of this material.

You should keep an organised file of notes to help you revise and prepare.

Achievement Cycle 1	Maths	Year 10	Tiers 1/2/3
Code	Description	Revised?	
M10.1.1	Order numbers (integers, negatives, decimals and fractions including mixed numbers) Use inequality symbols		
M10.1.2	Add, subtract, multiply and divide; integers, decimals and fractions including mixed numbers and negatives		
M10.1.3	Round to decimal places and significant figures		
M10.1.4	Order of operations (BIDMAS) Know how to find the reciprocals for integers, fractions and decimals		
M10.1.5	Error intervals for numbers and Limits of accuracy/Bounds (H*)		
M10.1.6	Estimate using common sense and pictures to scale To use sensible approximations in real life calculations		
M10.1.7	Writing and simplifying expressions (including real life)		
M10.1.8	Index laws for multiplication and division (Integer powers)		
M10.1.9	Expand and factorise in to a single bracket Expand double brackets		
M10.1.10	Factorise quadratics		
M10.1.11	Substitution into expressions and formulae		
M10.1.12	Differentiate between expressions, equations, formulae and identities		
M10.1.13	Function machines (algebraic and numeric)		
M10.1.14	Complete the square (H*)		



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Code	Description	Revised?	
M10.1.15	Complete the square $a > 1$ (H*)		
M10.1.16	Expand 3 brackets (H*)		
M10.1.17	Functions: understand and solve function problems (H*)		
M10.1.18	Draw and interpret bar charts, vertical line graph, pictograms, frequency tables, two way tables and pie charts		
M10.1.19	Draw and interpret scatter diagrams		
M10.1.20	Classify different type of data		
M10.1.21	Find averages and the range from a list Compare data sets Find averages from tables (including grouped data)		
M10.1.22	Understand, find and describe samples of data		
M10.1.23	Draw cumulative frequency graphs (H*)		
M10.1.24	Draw a box plot Read a box plot and find values for a box plot given information (H*)		
M10.1.25	Plot and interpret histograms (H*)		
M10.1.26	Find lines of symmetry, rotational symmetry from 2D shapes		
M10.1.27	Classify 3D shapes using their properties		
M10.1.28	Measure a line segment and an angle Read and interpret a scale		
M10.1.29	To draw and use an accurate scale drawing Plans and elevations Isometric paper		
M10.1.30	Read and use maps Draw and interpret bearings		
M10.1.31	Construct shapes and solve Loci problems		



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Achievement Cycle 1	Maths	Year 10	Tiers 4/5/6/7
Code	Description	Revised?	
M10.1.1	Order numbers (integers, negatives, decimals and fractions including mixed numbers) Use inequality symbols		
M10.1.2	Add, subtract, multiply and divide; integers, decimals and fractions including mixed numbers and negatives		
M10.1.3	Round to decimal places and significant figures		
M10.1.4	Order of operations (BIDMAS) Know how to find the reciprocals for integers, fractions and decimals		
M10.1.5	Error intervals for numbers		
M10.1.6	Estimate using common sense and pictures to scale To use sensible approximations in real life calculations		
M10.1.7	Writing and simplifying expressions (including real life)		
M10.1.8	Index laws for multiplication and division (Integer powers)		
M10.1.9	Expand and factorise single brackets Expand double brackets		
M10.1.10	Factorise quadratics		
M10.1.11	Substitution into expressions and formulae		
M10.1.12	Differentiate between expressions, equations, formulae and identities		
M10.1.13	Function machines (algebraic and numeric)		



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<b>Achievement Cycle 1</b>	<b>Maths</b>	<b>Year 10</b>	<b>Tiers 4/5/6/7</b>
<b>Code</b>	<b>Description</b>		<b>Revised?</b>
M10.1.18	Draw and interpret bar charts, vertical line graph, pictograms, frequency tables, two way tables and pie charts		
M10.1.19	Draw and interpret scatter diagrams		
M10.1.20	Classify different data types		
M10.1.21	Find averages and the range from a list Compare data sets and finding averages from tables (including grouped data)		
M10.1.26	Find lines of symmetry, rotational symmetry from 2D shapes		
M10.1.27	Classify 3D shapes using their properties		
M10.1.28	Measure a line segment and an angle Read and interpret a scale		
M10.1.29	Draw and use an accurate scale drawing Plans and elevations Isometric paper		
M10.1.30	Read and use maps Draw and interpret bearings		
M10.1.31	Construct shapes and solve Loci problems		