Co-op Academy North Manchester - Year 10 Maths Curriculum

Y10 foundation	HT1	HT2	HT3	HT4	HT5	HT6
Topic(s)	1) HCF & LCM 2) Simplifying Expressions 3) Expanding & Factorising 4) Factorising Quadratics 5) Indices & Standard Form	6) Solving Equations & Inequalities 7) Expressions, Equations & Formulae 8) Pythagoras 9) Trigonometry 10) Fractions Review	11) Percentages 12) Percentage Change 13) Circles, Area and Volume	14) Straight Line Graphs & Parallel Lines 15) Quadratic Graphs & Quadratic Equations 16) Real-Life Graphs 17) Angles in Polygons	18) Probability 19) Transformations 20) Vectors	21) Graphs, Tables & Charts 1 22) Graphs, Tables & Charts 2
Key Concepts	Number Algebra	Algebra Geometry Number	Number Geometry	Algebra Geometry	Probability Geometry	Algebra
Assessment	Topic assessments at the end of each topic with individualised Progress Tasks following each assessment. End of Year Assessment completed in HT6.					
Homework	Focus Task Homeworks set each week					
Wider reading	'Why do buses come in threes? The Hidden Mathematics of Everyday Life' - Rob Eastaway & Jeremy Wyndham	'The Indisputable Existence of Santa Claus' - Dr Hannah Fry and Dr Thomas Oleron Evans	'Flatterland' - Ian Stewart	'Things To Make and Do in the Fourth Dimension' - Matt Parker	'The Mathematical Universe' - William Dunham	'How to Cut a Cake: and Other Mathematical Conundrums' - Ian Stewart
How to help at home	The two sites below are fantastic resources for revision: - MathsGenie is useful for exam practice - https://www.mathsgenie.co.uk/gcse.html - CorbettMaths is useful for more topic-based practice - https://corbettmaths.com/contents/					

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Y10 Higher	HT1	HT2	HT3	HT4	HT5	HT6
Topic(s)	1) Expanding & Factorising 2) Indices & Surds 3) Equations and their Graphs	4) Functions & Formulae 5) Pythagoras 6) Trigonometry 7) Fractions & Recurring Decimals	8) Percentages 9) Repeated Percentage Change 10) Circles 11) Spheres, Cones and Frustums	12) Straight Line Graphs 13) Real-Life Graphs 14) Quadratic Graphs & their Equations	15) Angles Review 16) Vectors 1 17) Probability	18) Transformations 19) Vectors 2 20) Graphs, Tables and Charts
Key Concepts	Algebra Number	Algebra Geometry Number	Number Geometry	Algebra	Geometry Probability	Geometry Algebra
Assessment	Topic assessments at the end of each topic with individualised Progress Tasks following each assessment. End of Year Assessment completed in HT6.					
Homework	Focus Task Homeworks set each week					
Wider reading	'The Number Mysteries' - Marcus du Sautoy	'The Indisputable Existence of Santa Claus' - Dr Hannah Fry and Dr Thomas Oleron Evans	'Mathematical Puzzles' - Peter Winkler	'The Penguin Dictionary of Curious and Interesting Numbers' - David Wells	'The Great Mathematical Problems' - Ian Stewart	'The Monty Hall Problem' - Rob Deaves
How to help at home	The two sites below are fantastic resources for revision: - MathsGenie is useful for exam practice - https://www.mathsgenie.co.uk/gcse.html - CorbettMaths is useful for more topic-based practice - https://corbettmaths.com/contents/					