



Ark Acton
Academy

**What are
students
learning in Yr11
Maths?**

Spring 2022

SET 1

In each cell in the table:

- What are students studying this term?

What should my child do if they were absent, or need support or extra work?

- Go on Teams – your child’s teacher will upload all lesson resources there.
- Sparx independent learning – search the topic (<https://sparxmaths.com/>).
- Maths Watch Clip numbers included

	Monday	Tuesday	Wednesday	Thursday	Friday	Maths Watch Clip No.
2nd Jan	Xmas holidays	Inset Days		Finding HCF/LCM using Venns	Worted HCF/LCM - spotting the difference	79 80
9th Jan	Index laws - reasoning	Combinatorics	Worted HCF/LCM Weekly Quiz	Compound interest	Weekly Quiz	82 131 154 188 164
16th Jan	Calculating with standard form (multiply/divide)	Calculating with standard form (add/subtract)	Standard form worded problems	Standard form worded problems	Review all SF Weekly Quiz	83
23rd Jan	Averages from box plots, comparing distributions	Averages from ungrouped frequency tables	Averages from grouped frequency tables	Histograms review	Weekly Quiz	187 130a 130b 205
30th Jan	Worted Speed Distance Time	Pressure Force Area including worded	Network Day	Worted Density Mass Volume	Review all compound measures Weekly Quiz	142
6th Feb	Iteration	Algebraic direct proportion	Algebraic inverse proportion	Algebraic fractions	Algebraic fractions Weekly Quiz	179 180 199 210a 210b

Half term						
20th Feb	Exam revision and technique	Year 11 Mocks				
27th Feb	Year 11 Mocks					
6th March	Ratio in Geometry	Ratio in Algebra	Worded Ratio	Mixed Ratio	Weekly Quiz	38 39 106 107
13th March	Two-Way Tables	Box Plots	Scatter & Real Life Graphs	Exponential Relationships/ Graphs	Weekly Quiz	61 187 129
20th March	Algebraic Direct Proportion	Algebraic Indirect Proportion	Exchange Rates	Best Buys	Weekly Quiz	105 41
27th March	Topic Recurring Decimals	Bounds & Error Intervals	Surds	Weekly Quiz	Half Day - no lesson P6	177 155 206 207a 207b 207c
Easter Holidays						

SET 2

In each cell in the table:

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	Monday	Tuesday	Wednesday	Thursday	Friday	Mathswatch Clip No.
2nd Jan	Xmas holidays	Inset Days		Special numbers, prime factors, prime factorisation	Finding HCF/LCM using Venns	78 79 80
9th Jan	Worded FDP	Index laws - evaluating and calculating with indices	Index laws - reasoning	Worded HCF/LCM - spotting the difference	Worded HCF/LCM Weekly Quiz	85 131 154 188
16th Jan	Converting to and from standard form	Calculating with standard form (multiply/divide)	Calculating with standard form (add/subtract)	Standard form worded problems	Review all SF Weekly Quiz	83
23rd Jan	Averages from box plots, comparing distributions	Averages from ungrouped frequency tables	Averages from grouped frequency tables	Histograms review	Weekly Quiz	187 130a 130b 205
30th Jan	Worded Speed Distance Time	Pressure Force Area including worded	Network Day	Worded Density Mass Volume	Review all compound measures Weekly Quiz	143
6th Feb	Angles in parallel lines	Angles in polygons	Weekly Quiz	Compound interest	Weekly Quiz	120 123 164

Half term						
20th Feb	Exam revision and technique	Year 11 Mocks				
27th Feb	Year 11 Mocks					
6th March	Ratio in Geometry	Ratio in Algebra	Worded Ratio	Mixed Ratio	Weekly Quiz	38 39 106 107
13th March	Two-Way Tables	Box Plots	Scatter & Real Life Graphs	Exponential Relationships/Graphs	Weekly Quiz	61 187 129 194
20th March	Algebraic Direct Proportion	Algebraic Indirect Proportion	Exchange Rates	Best Buys	Weekly Quiz	199 105 41
27th March	Topic Recurring Decimals	Bounds & Error Intervals	Surds	Weekly Quiz	Half Day - no lesson P6	177 155 206 207a 207b 207c
Easter Holidays						

SET 3

In each cell in the table:

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	Monday	Tuesday	Wednesday	Thursday	Friday	Mathswatch Clip Number
2nd Jan	Christmas hols	Inset day	Inset day	Index laws - evaluating indices, calculating with indices	Index laws - more complex calculations (e.g. involving fractions and index numbers)	131 82
9th Jan	Prime factors, prime factorisation	Finding HCF/LCM using Venns	Finding HCF/LCM using Venns	Worded HCF/LCM - spotting the difference	Worded HCF/LCM Weekly Quiz	79 80
16th Jan	Converting to standard form	Ordering standard form	Calculating with standard form (multiply/divide)	Standard form worded problems	Buffer: standard form Weekly Quiz	83
23rd Jan	Metric conversion	Worded direct proportion	Worded inverse proportion	Conversion graphs	Mixed direct and inverse proportion Weekly Quiz	112 42
30th Jan	Speed distance time: proportional methods	Pressure force area	Network Day	Density, mass, volume, including worded problems	Weekly Quiz	153 142
6th Feb	Basic angle facts	Angles in parallel lines	Interior angles in polygons	Exterior angles in polygons	Weekly Quiz	120 123
Half term						
20th Feb	Exam revision and technique	Year 11 Mocks				

27th Feb	Year 11 Mocks					
6th March	Plotting linear graphs	Factorising linear expressions	Factorising quadratics	Solving quadratics by factorising Ext: Estimating solutions from graphs (including when equation not equal to 0)	Plotting quadratics Weekly Quiz	159a 159b 157 160
13th March	Pythagoras - finding shorter sides	Pythagoras - finding the hypotenuse	Mixed Pythagoras questions	Problem solving with Pythagoras	Problem solving with Pythagoras Weekly Quiz	150a 150b 150c
20th March	Exact Right-Angled Trigonometry (SOH CAH TOA) values	Right-Angled Trigonometry (SOH CAH TOA) - finding lengths	Right-Angled Trigonometry (SOH CAH TOA) - finding angles	Mixed Right-Angled Trigonometry (SOH CAH TOA) and Pythagoras questions	Weekly Quiz	168 173
27th March	Negative numbers: worded problems	Money calculations: worded problems	Fractions Decimals Percentages worded problems	Utility bills	Half Day - no lesson P6	23 68a 68b 22a 22b 85

SET 4

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	Monday	Tuesday	Wednesday	Thursday	Friday	Mathswatch Clip No.
2nd Jan	Xmas holidays	Inset Days		Special numbers	Prime factors, prime factorisation	28 81 78
9th Jan	Finding HCF/LCM using Venns	Finding HCF/LCM using Venns	Index laws - evaluating and calculating with indices	Worded HCF/LCM - spotting the difference	Worded HCF/LCM Weekly Quiz	79 80
16th Jan	Converting to standard form	Ordering numbers in standard form	Calculating with standard form (multiply/divide)	Standard form worded problems	Review all SF Weekly Quiz	83
23rd Jan	Metric conversions	Direct proportion (some worded Qs)	Inverse proportion (some worded Qs)	Conversion graphs	Recipe questions Weekly Quiz	112 39 42
30th Jan	Speed Distance Time	Pressure Force Area	Network Day	Density Mass Volume	Weekly Quiz	142
6th Feb	Basic angle facts	Angles in parallel lines	Interior angles in polygons	Exterior angles in polygons	Weekly Quiz	45 120 123
Half term						
20th Feb	Exam revision and technique	Year 11 Mocks				
27th Feb	Year 11 Mocks					
6th March	Plotting linear graphs	Factorising linear expressions	Factorising quadratics	Solving quadratics by factorising Ext: Estimating solutions	Plotting quadratics	159a 159b 157 160

				from graphs (including when equation not equal to 0)	Weekly Quiz	
13th March	Pythagoras - finding shorter sides	Pythagoras - finding the hypotenuse	Mixed Pythagoras questions	Problem solving with Pythagoras	Problem solving with Pythagoras Weekly Quiz	150a 150b 150c
20th March	Exact Right-Angled Trigonometry (SOH CAH TOA) values	Right-Angled Trigonometry (SOH CAH TOA) - finding lengths	Right-Angled Trigonometry (SOH CAH TOA) - finding angles	Mixed Right-Angled Trigonometry (SOH CAH TOA) and Pythagoras questions	Weekly Quiz	168 173
27th March	Negative numbers: worded problems	Money calculations: worded problems	Fractions Decimal Percentages worded problems	Utility bills	Half Day - no lesson P6	22a 22b 85
Easter Holidays						

SET 5

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	Monday	Tuesday	Wednesday	Thursday	Friday	Mathswatch Clip No.
2nd Jan	Xmas holidays	Inset Days		Factors & Multiples	LCM of number pairs	28
9th Jan	Finding HCF of number pairs	Weekly Quiz	Rules for Powers (multiplying/dividing/power zero= \neq 1)	Index laws - calculating with indices (simple multiplication/dividing)	Weekly Quiz	82 131
16th Jan	Probability Scale with missing values	Probability Sum to 1 and mutually exclusive events	Probability of events	Frequency Tree	Weekly Quiz	125 126 151
23rd Jan	Metric conversions	Metric conversions	Recipe questions	Recipe questions	Weekly Quiz	112 38 39
30th Jan	Solving linear equations 1 step	Solving linear equations 2 steps	Network Day	Solving linear equations 2 steps	Weekly Quiz	135a
6th Feb	Basic Angles Facts-Triangles, around a point, Line	Basic Angles Facts-Triangles, around a point, Line	Angles on Parallel Lines	Angles on Parallel Lines	Weekly Quiz	13 120 121 122
Half term						
20th Feb	Exam revision	Year 11 Mocks				

	and technique					
27th Feb	Year 11 Mocks					
6th March	Plotting linear graphs	Factorising linear expressions	Factorising quadratics	Solving quadratics by factorising Ext: Estimating solutions from graphs (including when equation not equal to 0)	Plotting quadratics Weekly Quiz	159a 159b 160
13th March	Pythagoras - finding shorter sides	Pythagoras - finding the hypotenuse	Mixed Pythagoras questions	Problem solving with Pythagoras	Problem solving with Pythagoras Weekly Quiz	150a 150b
20th March	Exact trig values	Right-angled Trigonometry (SOH CAH TOA) - finding lengths	Right-angled Trigonometry (SOH CAH TOA) - finding angles	Mixed Right-angled Trigonometry (SOH CAH TOA) and Pythagoras questions	Weekly Quiz	168 173
27th March	Negative numbers: worded problems	Money calculations: worded problems	Fractions Decimals Percentages worded problems	Utility bills	Half Day - no lesson P6	22a 22b
Easter Holidays						