

AUTUMN TERM DISCOVERING MATHS 2B YEAR 8

MON 7TH SEPT

Kerboodle book 2B

Autumn term / Week 1	Chapter 1 Factors and Multiples			<ul style="list-style-type: none"> k Chapter 1 introduction video k Chapter 1 online skills test k Chapter 1 end of chapter test and mark scheme Graded Question Bank 2, Chapter 1 k Fully-worked solutions: Chapter 1 in Workbook 2B and Graded Question Bank 2 	Pages 5-7
	1.1 Primes, Prime Factorisation and Index Notation	<ul style="list-style-type: none"> • recognise prime numbers • express a composite number as a product of its prime factors • represent the prime factorisation of a number in index notation 	DF2, 7 RM5 SP1-4 N3, 7, 12	Workbook 2B Section 1.1 k Try It! videos 1, 3, 4, 5, 6	

MON 14TH SEPT

Autumn term / Week 2	1.2 Highest Common Factor (HCF)	<ul style="list-style-type: none"> • find the highest common factor (HCF) of a group of numbers by using prime factorisation 	DF2, 7 RM5 SP1-4 N3, 7, 12	Workbook 2B Section 1.2 k Try It! videos 10, 12, 13, 14	Pages 14-18 19-23
	1.3 Lowest Common Multiple (LCM)	<ul style="list-style-type: none"> • find the lowest common multiple (LCM) of a group of numbers by using prime factorisation 	DF2, 7 RM5, 6 SP1-4 N3, 7, 12	Workbook 2B Section 1.3 k Try It! videos 16, 17, 18	

MON 21ST SEPT

Autumn term / Week 3	1.4 Square Roots, Cube Roots and Prime Factorisation	<ul style="list-style-type: none"> • understand the use of prime factorisation to find the square root and cube root of a number 	DF1, 2, 7 RM1, 5 SP1-4 N3, 6, 7, 12, 15	Workbook 2B Section 1.4 k Try It! videos 20, 21, 22, 23, 24, 26	Pages 24-29
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MON 28TH SEPT

Autumn term / Week 4	Chapter 2 Approximation and Estimation			<ul style="list-style-type: none"> k Chapter 2 introduction video k Chapter 2 online skills test k Chapter 2 end of chapter test and mark scheme Graded Question Bank 2, Chapter 2 k Fully-worked solutions: Chapter 2 in Workbook 2B and Graded Question Bank 2 	Pages 35-38 39-42
	2.1 Rounding Numbers to Decimal Places	<ul style="list-style-type: none"> • round numbers to a required number of decimal places 	DF1, 2, 7 RM1, 5 SP1-4 N1, 12, 13, 15	Workbook 2B Section 2.1 k Try It! video 2	
	2.2 Rounding Numbers to Significant Figures	<ul style="list-style-type: none"> • round numbers to a required number of significant figures 	DF1, 2, 7 RM1, 5 SP1-4 N1, 2, 12, 13, 14, 15	Workbook 2B Section 2.2 k Try It! videos 5, 8	

MON 5TH OCT

Autumn term / Week 5	2.3 Estimation	<ul style="list-style-type: none"> estimate quantities (numbers and measures) to an appropriate degree of accuracy estimate the results of computation be aware of rounding errors in the intermediate steps of calculations 	DF2, 7 RM5 SP1-4 N2, 12, 13, 14, 15	Workbook 2B Section 2.3 <ul style="list-style-type: none"> Try It! videos 12, 13, 14, 15, 17 	Pages 43-53 58-62
	Chapter 3 Ratio, Rate and Speed			<ul style="list-style-type: none"> Chapter 3 introduction video Chapter 3 online skills test Chapter 3 end of chapter test and mark scheme Graded Question Bank 2, Chapter 3 <ul style="list-style-type: none"> Fully-worked solutions: Chapter 3 in Workbook 2B and Graded Question Bank 2 	
	3.1 Integer Ratios	<ul style="list-style-type: none"> use ratio notation compare quantities by ratio describe the relationship between ratio and fraction divide a quantity in a given ratio 	DF1, 2, 5, 7 RM1, 2, 5, 6 SP1-4 N3, 12 R1, 4, 5, 6, 7	Workbook 2B Section 3.1	

MON 12TH OCT

Autumn term / Week 6	3.2 All Kinds of Ratios	<ul style="list-style-type: none"> solve problems involving ratio 	DF1, 2, 5, 7 RM1, 2, 5, 6 SP1-4 N3, 12, 15 R1, 4, 5, 6, 7	Workbook 2B Section 3.2 <ul style="list-style-type: none"> Try It! videos 7, 10, 13 	Pages 63-70
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MON 19TH OCT

Autumn term / Week 7	3.3 Scale Plans and Maps	<ul style="list-style-type: none"> understand and use the scale of a map or plan 	DF2, 7 RM2, 5, 6 SP1-4 N12 R1, 2, 4, 6	Workbook 2B Section 3.3 <ul style="list-style-type: none"> Try It! video 18 	Pages 71-80 81-86
	3.4 Rate	<ul style="list-style-type: none"> solve problems involving rate in daily life 	DF1, 2, 7 RM1, 2, 5, 6 SP1-4 N12 R1	Workbook 2B Section 3.4 <ul style="list-style-type: none"> Try It! video 26 	

HALF TERM FRI 23RD OCT – SUN 1 NOV


MON 2ND NOV

Autumn term / Week 8	3.5 Speed	<ul style="list-style-type: none"> recognise the relationships between distance, time and speed write speed in different units and convert it from one unit to another recognise the concepts of constant speed and average speed solve problems involving speed 	DF2, 7 RM2, 5 SP1-4 N12 R1, 10	Workbook 2B Section 3.5 <ul style="list-style-type: none"> Try It! video 31, 33 	Pages 87-92
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MON 9TH NOV

Autumn term / Week 9	Chapter 4 More Percentages			<ul style="list-style-type: none"> Chapter 4 introduction video Chapter 4 online skills test Chapter 4 end of chapter test and mark scheme Graded Question Bank 2, Chapter 4 <ul style="list-style-type: none"> Fully-worked solutions: Chapter 4 in Workbook 2B and Graded Question Bank 2 	Pages 97-102
	4.1 Expressing a Percentage as a Fraction or a Decimal	<ul style="list-style-type: none"> express a percentage as a fraction or a decimal 	DF1, 2, 5 RM1, 5 SP1-4 N10, 12, 15	Workbook 2B Section 4.1 <ul style="list-style-type: none"> Try It! videos 3, 4, 5 	


MON 16TH NOV

Autumn term / Week 10	4.2 Simple Percentage Problems	<ul style="list-style-type: none">• express one quantity as a percentage of another• compare two quantities by percentage• recognise percentages greater than 100%• calculate simple interest	DF2 RM5, 6 SP1-4 N10, 12, 15 R8	Workbook 2B Section 4.2  Try It! videos 6, 7, 8	Pages 103-108
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MON 23RD NOV

Autumn term / Week 11	4.3 Reverse Percentages	<ul style="list-style-type: none">• solve problems involving reverse percentage	DF2 RM5, 6 SP1-4 N10, 12, 15 R8	Workbook 2B Section 4.3  Try It! video 12	Pages 109-112
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MON 30TH NOV

Autumn term / Week 12	4.4 Percentage Increase and Decrease	<ul style="list-style-type: none">• calculate percentage increase and decrease in quantities	DF2 RM5, 6 SP1-4 N10, 12, 15 R8	Workbook 2B Section 4.4  Try It! videos 15, 18, 20	Pages 113-119
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MON 7TH DEC ASSESSMENT AND GO THROUGH THE TESTS/ START STEM ACTIVITY

MON 14TH DEC

XMAS ACTIVITIES

SAT 19TH DEC-MON 4TH JAN XMAS HOLIDAY