AUTUMN TERM DISCOVERING MATHS 2B YEAR 8

MON 6TH SEPT   **Kerboodle book 2B**

					Pages
Autumn term / Week 1	**Chapter 1 Factors and Multiples**			Ⓚ Chapter 1 introduction video Ⓚ Chapter 1 online skills test Ⓚ Chapter 1 end of chapter test and mark scheme Graded Question Bank 2, Chapter 1 Ⓚ Fully-worked solutions: Chapter 1 in Workbook 2B and Graded Question 2	**5-7**
	1.1 Primes, Prime Factorisation and Index Notation	• 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 Ⓚ Try It! videos 1, 3, 4, 5, 6	

MON 13TH SEPT

					Pages
Autumn term / Week 2	1.2 Highest Common Factor (HCF)	• 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 Ⓚ Try It! videos 10, 12, 13, 14	**14-18**
	1.3 Lowest Common Multiple (LCM)	• 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 Ⓚ Try It! videos 16, 17, 18	**19-23**

MON 20th SEPT

					Pages
Autumn term / Week 3	1.4 Square Roots, Cube Roots and Prime Factorisation	• 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 Ⓚ Try It! videos 20, 21, 22, 23, 24, 26	**24-29**

MON 27th SEPT

					Pages
Autumn term / Week 4	**Chapter 2 Approximation and Estimation**			Ⓚ Chapter 2 introduction video Ⓚ Chapter 2 online skills test Ⓚ Chapter 2 end of chapter test and mark scheme Graded Question Bank 2, Chapter 2 Ⓚ Fully-worked solutions: Chapter 2 in Workbook 2B and Graded Question Bank 2	
	2.1 Rounding Numbers to Decimal Places	• 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 Ⓚ Try It! video 2	**35-38**
	2.2 Rounding Numbers to Significant Figures	• 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 Ⓚ Try It! videos 5, 8	**39-42**

MON 4TH OCT

					Pages
Autumn term / Week 5	2.3 Estimation	• 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 Ⓚ Try It! videos 12, 13, 14, 15, 17	**43-53**
	Chapter 3 Ratio, Rate and Speed			Ⓚ Chapter 3 introduction video Ⓚ Chapter 3 online skills test Ⓚ Chapter 3 end of chapter test and mark scheme Graded Question Bank 2, Chapter 3 Ⓚ Fully-worked solutions: Chapter 3 in Workbook 2B and Graded Question Bank 2	
	3.1 Integer Ratios	• 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	**58-62**

MON 11TH OCT

					Pages
Autumn term / Week 6	3.2 All Kinds of Ratios	• 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 Ⓚ Try It! videos 7, 10, 13	**63-70**

MON 18TH OCT

					Pages
Autumn term / Week 7	3.3 Scale Plans and Maps	• 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 Ⓚ Try It! video 18	**71-80**
	3.4 Rate	• solve problems involving rate in daily life	DF1, 2, 7 RM1, 2, 5, 6 SP1–4 N12 R1	Workbook 2B Section 3.4 Ⓚ Try It! video 26	**81-86**

HALF TERM SAT 23RD OCT – SUN 31st OCT

MON 1st NOV

					Pages
Autumn term / Week 8	3.5 Speed	• 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 Ⓚ Try It! video 31, 33	**87-92**

MON 8TH NOV

					Pages
Autumn term / Week 9	**Chapter 4 More Percentages**			Ⓚ Chapter 4 introduction video Ⓚ Chapter 4 online skills test Ⓚ Chapter 4 end of chapter test and m Graded Question Bank 2, Chapter 4 Ⓚ Fully-worked solutions: Chapter 4 Workbook 2B and Graded Questi	
	4.1 Expressing a Percentage as a Fraction or a Decimal	• express a percentage as a fraction or a decimal	DF1, 2, 5 RM1, 5 SP1–4 N10, 12, 15	Workbook 2B Section 4.1 Ⓚ Try It! videos 3, 4, 5	**97-102**

MON 15TH NOV

| Autumn term / Week 10 | 4.2 Simple Percentage Problems | • 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** |

MON 22nd NOV

| Autumn term / Week 11 | 4.3 Reverse Percentages | • 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** |

MON 29TH NOV

| Week 12 | 4.4 Percentage Increase and Decrease | • 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** |

SAT 18TH DEC-MON 3rd JAN XMAS HOLIDAY