

General Topic	Objectives	Grade	LESSONS AND ONLINE HOMEWORK
CHAPTER 1 INTEGERS	Find the least common multiple (LCM) of two simple numbers	C	NUMBER / Powers and Integers
	Find the highest common factor (HCF) of two simple numbers	C	HCF
	Find the least common multiple (LCM) of two or more numbers	B	LCM
	Find the highest common factor (HCF) of two or more numbers	B	Factors and Primes
	Recognise prime numbers	C	NUMBER / Fractions / Reciprocals
	Write a number as a product of prime factors	C	
	Find the reciprocal of a number	C	
CHAPTER 2 ROUNDING	Estimate answers to calculations involving division	D	NUMBER / Accuracy and Estimation
	Estimate answers to calculations involving division by numbers less than one	C	Rounding to 10, 100 + Rounding decimals
	Round to a given number of significant figures	B	Decimal Places + Significant Figures
	Find minimum and maximum values	C	Upper and Lower Bounds 1 and 2 + Estimating Calculations
CHAPTER 3 DECIMALS	Multiply two decimals such as 2.4×0.7	D	NUMBER / Decimals
	Divide a number by a decimal such as $1 \div 0.2$ and 2.8 divided by 0.07	C	Multiply Two decimals
	Convert decimals to fractions and fractions to decimals	D	Recurring Decimals 1 and 2
	Convert recurring decimals to fractions and fractions to recurring decimals	B	NUMBER / Frac Dec Perc
	Identify recurring and terminating decimals		
CHAPTER 4 FRACTIONS	Do calculations with simple fractions involving subtraction	D	NUMBER / Fractions
	Do calculations with mixed numbers	C	All relevant lessons
	Do calculations with simple fractions involving division		
CHAPTER 5 SURDS	Simplify surds	A*	NUMBER / Surds
	Rationalise the denominator of a surd	A	Surds and Surds Part 2
CHAPTER 6 INDICES AND STANDARD FORM	Use the terms square, positive and negative square root, cube and cube root	D	NUMBER / Powers and Integers
	Recall integer squares from 2×2 to 15×15 and the corresponding square roots		Squares and Cubes + Indices Part 1 and 2
	Recall the cubes of 2, 3, 4, 5 and 10		NUMBER / Standard Form
	Use index notation and index laws for positive and negative powers	C	All lessons
	Use index notation and index laws for fractional powers	A/A*	
	Use standard index form with and without a calculator	C	
	Convert between ordinary and standard index form representations	B	

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CHAPTER 7 PERCENTAGES	Increase or decrease a quantity by a given percentage	D	NUMBER / Percentages
	Understand how to use successive percentages	B	Percentage Change 1 and 2
	Work out compound interest		NUMBER / Exponentials
	Express one quantity as a percentage of another	D	Exponential Growth
	Work out a percentage increase or decrease	C	
	Work out reverse percentage problems	B	
CHAPTER 8 RATIO AND PROPORTION	Solve simple ratio and proportion problems, such as finding the ratio of teachers to students in a school	D	NUMBER / Proportion / All lessons
	Solve more complex ratio and proportion problems, such as sharing out money between two groups in the ratio of their numbers	C	NUMBER / Ratio / All lessons
	Solve ratio and proportion problems using the unitary method		
	Calculate proportional changes using a multiplier	B	
	Solve direct and inverse proportion problems	A	
	Interpret the graphs of direct and inverse proportion relationships		
CHAPTER 9 USE OF SYMBOLS	Multiply out expressions with brackets	D	ALGEBRA / Use of Symbols
	Expand (and simplify) harder expressions	C	Simplifying 1 and 2
	Expand (and simplify) quadratic expressions	B	Brackets
	Factorise expressions	D	All factorising lessons
	Factorise quadratic expressions	B	Cancelling Alg Fractions
	Simplify rational expressions		
	Factorise harder quadratic expressions	A	
Simplify harder rational expressions	A*		
CHAPTER 10 QUADRATIC GRAPHS	Draw graphs of simple quadratic functions	D	ALGEBRA / Graphs
	Draw graphs of harder quadratic functions	C	Drawing graphs
	Find the points of intersection of quadratic graphs with lines		Solving graphs
	Use graphs to find the approximate solutions of quadratic equations		
	Use the points of intersection of a quadratic graph with lines to solve equations	A	