

General Topic	Objectives	Grade	LESSONS AND ONLINE HOMEWORK
CHAPTER 1 INTEGERS	• Understand positive and negative integers	G	NUMBER / Negatives / All lessons
	• Add and subtract negative integers	F	
	• Multiply and divide negative integers	E	
	• Find the factors of a number	G	NUMBER / Powers and Integers HCF and LCM Factors and Primes
	• Find the least common multiple (LCM) of two simple numbers		
	• Find the highest common factor (HCF) of two simple numbers		NUMBER / Fractions / Reciprocals
	• Recognise prime numbers	C	
	• Write a number as a product of prime factors		
	• Find the reciprocal of a number		
CHAPTER 2 ROUNDING	• Round to the nearest integer		G
	• Write an integer correct to the nearest 10 or the nearest 100		
	• Round numbers to given powers of 10 and to given numbers of decimal places	F	Decimal places and Significant Figures
	• Round a number to one significant figure	E	Upper and Lower Bounds 1 and 2
	• Estimate answers to problems involving decimals	G	Estimating Introduction
	• Estimate square roots	F	Estimating Calculations
	• Estimate answers to calculations involving division	D	
	• Estimate answers to calculations involving division by numbers less than one	C	
• Find minimum and maximum values			
CHAPTER 3 DECIMALS	• Write down the place value of a digit, for example, what is the value of the 4 in 0.24?	F	NUMBER / Decimals All lessons except Recurring Decimals
	• Order decimals, for example, which is bigger, 0.24 or 0.3?		
	• Add and subtract decimals	E	
	• Multiply two decimals, such as 2.4×0.7	D	NUMBER / Frac Dec Perc
	• Divide a number by a decimal, such as $1 \div 0.2$ and $2.8 \div 0.07$	C	All lessons
• Convert decimals to fractions and fractions to decimals	D		
CHAPTER 4 FRACTIONS	• Find equivalent fractions	G	NUMBER / Fractions All lessons except Recurring Decimals and Reciprocals
	• Simplify fractions	F	
	• Arrange fractions in order of size		E
	• Work out fractions of quantities		
	• Find one number as a fraction of another		
	• Do calculations with simple fractions involving addition	D	
	• Do calculations with simple fractions involving subtraction		
	• Do calculations with mixed numbers	C	
	• Do calculations with simple fractions involving multiplication	E	
• Do calculations with simple fractions involving division	C		

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CHAPTER 5 INDICES	<ul style="list-style-type: none"> Calculate squares and square roots (with and without the use of a calculator) 	F	NUMBER / Powers and Integers
	<ul style="list-style-type: none"> Calculate cubes and cube roots (with and without the use of a calculator) 	E	Sqaures and Cubes Indices Part 1 and 2
	<ul style="list-style-type: none"> Use function keys on a calculator for powers and roots 		
	<ul style="list-style-type: none"> Use the terms square, positive square root, negative square root, cube and cube root 	D	
	<ul style="list-style-type: none"> Recall integer squares from 2×2 to 15×15 and the corresponding square roots 		
	<ul style="list-style-type: none"> Recall the cubes of 2, 3, 4, 5 and 10 		
<ul style="list-style-type: none"> Use index notation and index laws for positive and negative powers 	C		
CHAPTER 6 PERCENTAGES	<ul style="list-style-type: none"> Understand that percentage means 'out of 100' 	F	NUMBER / Percentages All lessons
	<ul style="list-style-type: none"> Change a percentage to a fraction or a decimal and vice versa 		
	<ul style="list-style-type: none"> Compare percentages, fractions and decimals 	E	
	<ul style="list-style-type: none"> Work out a percentage of a given quantity 		
	<ul style="list-style-type: none"> Calculate simple interest 	D	
	<ul style="list-style-type: none"> Increase or decrease a quantity by a given percentage 		
	<ul style="list-style-type: none"> Express one quantity as a percentage of another 	C	
<ul style="list-style-type: none"> Work out a percentage increase or decrease 			
CHAPTER 7 RATIO AND PROPORTION	<ul style="list-style-type: none"> Solve simple ratio and proportion problems, for example finding the ratio of teachers to pupils in a school finding the amount of flour in a recipe for pastry when the ratio of fat to flour is 1:2. 	D	NUMBER / Proportion
	<ul style="list-style-type: none"> Solve more complex ratio and proportion problems, for example sharing out money between two groups in the ratio of the numbers in each group. 	C	Proportion and Proportion Unitary Method NUMBER / Ratio / All lessons