Wks	Topic	Notes	Examples	Ref
(?)	**1. <u>INDICES</u>**			
	Multiplication and division Factors	Knowing tables up to 10	What is 5×5? How many 6's in 48? Find the factors of 20.	
(?)	**2. <u>FORMULAE</u>**			
	Evaluate simple formulae with positive integers.		Find $A = \ell b$ when $\ell = 3$, $b = 5$.	
(?)	**3. <u>ANGLE GEOMETRY</u>**			
	Drawing and measuring angles with a protractor.	Up to 360°		
	Line and rotational symmetry of 2-D objects		Find all the lines of symmetry of a square.	
(?)	**4. <u>TRIGONOMETRY: PYTHAGORAS' THEOREM</u>**			
	Classification of triangles	Isosceles, equilateral, scalene, right-angled		
	Area of squares	Whole numbers only	Find the area of a square of side 4 cm.	
(?)	**5. <u>PROBABILITY</u>**			
	Basic probability; practical probability	Using coins, dice, cards, etc.	If you toss a coin 100 times, how many heads would you expect?	
	Probability scale	Likely and unlikely events		
(?)	**6. <u>NUMBER SYSTEM: DECIMALS</u>**			
	Everyday examples of $(+, -, \times, \div)$		Cost of 15 pens at 8p each	
	Extend place value to decimals			
	Number system	Including $\frac{1}{10}$, $\frac{1}{100}$, etc.	Next number in sequence 0.2, 0.4, 0.6, ...	
	Money	Coins; changing between pence and pounds; notation, e.g. £1.27 **not** £1.27p	Change 127 p to £s.	
	$+, -, \times, \div$ whole numbers including long multiplication and division		127×23; $465 \div 15$	
	Multiplying and dividing by powers of 10	Without the use of a calculator	25.62×100, $216.2 \div 10$, $14 \div 0.2$	

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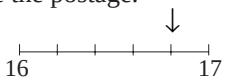
Wks	Topic	Notes	Examples	Ref
?2)	**7. <u>MENSURATION</u>** Making 3-D shapes given nets Using measuring instrument and appropriate units Appropriate degree of accuracy Reading and interpreting scales	Draw and measure angles accurately 100 cm = 1 m, etc. Rounding sensibly for the range of measures used and the context	Draw a net of a cuboid 5 cm by 3 cm by 2 cm. How many mm in 2.763 m? Weighing a parcel to decide the postage. What is the value of 	
(?)	**9. <u>DATA ANALYSIS</u>** Mean, mode, median, range for discrete data		Find mean, mode, median and range for these golf scores at a particular hole: 2, 4, 5, 4, 3, 5, 4, 4, 3, 5, 4	
(?)	**10. <u>EQUATIONS</u>** Negative numbers (number lines) in context Ordering directed numbers +, –, ×, ÷ directed numbers	Temperature problems	$-6^\circ + 4^\circ = ?$ $-5-4=?;\ (-5)\times 4=?$	
(?)	**11. <u>FRACTIONS and PERCENTAGES</u>** Conversion between fractions, decimals and percentages Finding simple fractions and percentages of quantitities	Know common equivalents $\left(\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, \frac{1}{3}, \frac{2}{3}, 10\%\right)$	$0.5 \equiv \frac{1}{2} \equiv 50\%$ $\frac{1}{4}$ of 20, 10% of £50, 20% of 10 kg	

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Wks	Topic	Notes	Examples	Ref
(?)	**14. <u>LOCI and TRANSFORMATIONS</u>** Line and rotational symmetry Drawing shapes to correct size		Find rotational symmetry of	
(?)	**15. <u>VARIATION: RATIO and PROPORTION</u>** Simple ratios Equivalent ratios and fractions		If the teacher/pupil ratio is 1:20, and there are 15 teachers, how many pupils are there? 5:15 ≡ 1:3	
(?)	**16. <u>INEQUALITIES</u>** Simple inequalities using a number line		Mark on a number line $x < 5$, $x \geq 2$	

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