Year 7 Term 4

Learning Aim	Emerging	Developing	Securing	Mastering
Percentages	Find simple fractions & percentage of amounts.	Find any fraction/percentage of amount, inc. decimals & percentages > 100% Write percentage of one quantity to another. Change between fractions, decimals and percentages.	Percentage increase and decrease using a multiplier.	
Examples	$\frac{2}{5}$ of 40 = 20% of 42	Work out 2.8% of 248 Work out 250% of 30 Write 28% as a fraction Write $\frac{4}{5}$ as a percentage	Increase 84 by 3.5% Decrease 124 by 12%	
Ratio/ Proportion	Simplify ratio	Write a ratio as a fraction and divide into a given quantity Solve simple proportion eg. Recipes, exchange rates		
Examples	Simplify 45:15	Share £225 in the ratio 2:7 150g of flour is needed to make 15 cakes, how much flour is needed to make 40 cakes.		
Algebra Expressions Sequences	Understand and use algebraic notation Continue finding next terms in linear sequences	Expand single brackets Factorise simple expressions Collecting like terms Find missing terms anywhere in linear sequence	Expand double brackets Model simple situations such as perimeter from given expressions	
Examples	Write 4 more than x Continue 7, 10, 13, 16, …….	Simplify 2a + 3b +a − 5b Expand 5(x − 9) Write the nth term for the sequence 7, 10, 13, 16	Expand and collect 2(x − 5) − 3(x + 4)	

Extension opportunities	Introduction to:
Percentages Algebra	Simple and compound interest Simplifying expressions & factorise with powers

You can find practice on all the topics taught this term at Mathsworkout.co.uk
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Go to number section:17, Algebra section: 02, 03

Choosing the right level of difficulty for you within each topic area.