Year 8 Term 1

Learning Aim	Emerging	Developing	Securing		
Transformation	Add lines of symmetry Reflect simple shapes in vertical or horizontal lines.	Draw and describe; translation using vectors notation. Reflect harder shapes in the axes and y=x Work out order of rotational symmetry Enlarge from a given SF. Tessellate shapes	Add, subtract and scale vectors inc. geometrical representations Draw & describe rotation/enlargement in a given point.		
Examples	A	Describe the reflection Translate using vector (2) (1)	Describe the rotation Enlarge brocentre (-4	y scale factor 2,	
Fraction focus		Four operations, different denominators	Four operations with mixed numbers	Complex questions which mix number type and order	
Examples		$\frac{4}{5} \times \frac{5}{8} =$	$3\frac{1}{4} \div 2\frac{2}{3} =$	$3\frac{1}{4} \div \frac{2}{3} \times (\frac{2}{5} - 1\frac{1}{4}) =$	
Percentages	Find simple fractions & percentage of amounts.	Find any fraction/percentage of amount, inc. decimals & percentages > 100% Write percentage of one quantity to another. Percentage increase and decrease using a multiplier.	Percentage change, compound and reverse	Mixed functional skill questions	
Examples	$\frac{2}{5}$ of 40 = 20% of 42	What is 23 out of 30 as a percentage Work out 125% of 38 Increase 112 by 2.4%	I invest £5000 for 4 years in a bank offering 2.8% compound interest	I have £230. I give ¼ to charity, 35% to my mum and keep the rest	

Extension opportunities

Dual transformations
Enlargements with fractional and negative scale factors
Reflect in y=mx + c

You can find practice on all the topics taught this term at Mathsworkout.co.uk.

Login: sarum. Password: solid92

Go to Geometry; section 17. Number; section 16 & 17 Choosing the right level of difficulty for you within each topic area.