


Subject	Year	Month	
Mathematics	9	May	
Topic:			
TRANSFORMATIONS			6 LESSONS
Content (Intent)			
Prior Learning Y7 June <ul style="list-style-type: none"> Reflections (incl. equations for horizontal, vertical and diagonal mirror lines) Rotations Translations (incl. vector notation) Y8 Nov <ul style="list-style-type: none"> Enlargements (only positive and fractional sf) Y8 May / Y9 March <ul style="list-style-type: none"> Straight line equations (which help with mirror lines) 		Future Learning Y10 (summer term) <ul style="list-style-type: none"> All four transformations are discussed in detail for both Foundation as well as Higher tiers Going into all the details for each transformation Transformations are being mixed. Enlargement is linked to SIMILAR SHAPES Translations is linked with the topic VECTORS 	
Objectives <ol style="list-style-type: none"> Reflections (1 lesson) <ul style="list-style-type: none"> Horizontal, vertical and diagonal mirror lines Fully describe the reflection Construct the reflection Rotations (1 lesson) <ul style="list-style-type: none"> Degrees, clockwise, anti-clockwise Centre of rotation Describe and construct Translations (1 lesson) <ul style="list-style-type: none"> Describe and construct Vector Enlargements (2 lessons) <ul style="list-style-type: none"> Describe and construct Centre of enlargement Positive, negative and fractional scale factor Mixed Transformations (1 lesson) 			
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)	
Notation Cartesian coordinates should be separated by a comma and enclosed in brackets (x, y) Vector notation $\begin{pmatrix} a \\ b \end{pmatrix}$ where a = movement right and b = movement up		In class assessment. Assessments in Year 10	
		How can parents help at home?	
		MathsWatch clips Qualification KS3 : G3, G4a and b, G4b, G5 , G6 , G7 Qualification GCSE : 48, 49, 50, 148, 181a, 182	
Further reading/discussion			
Reading / Enrichment	Literacy	Numeracy Links	Careers Links
	x-axis, y-axis Origin Transformations: Translation, Reflection, Rotation, Enlargement Object, Image Congruent, congruence Mirror line Vector Centre of rotation Similar, Similarity Scaling, Scale factor Centre of enlargement		Animator Fashion designer Plumber CAD engineer Game developer Interior designer Surveyor Urban planner Construction worker Cartographer Mechanical engineer Robotics engineer Architect