STM Knowledge Organiser Year: 7 Subject: Maths

Core Knowledge

Topic: Symmetry

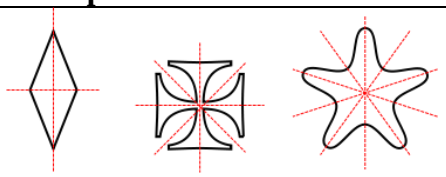
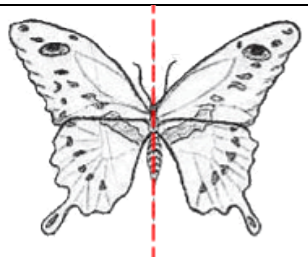
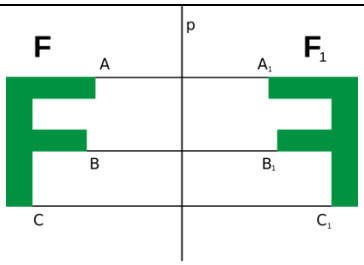
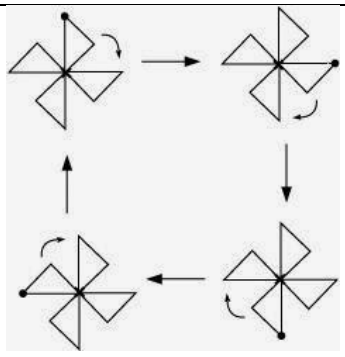
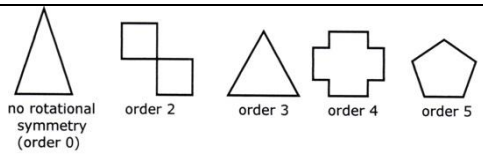
Topic/Skill	Definition/Tips	Example
Line of symmetry	If you can fold a 2D shape along a line so that one half fits exactly over the other, the fold line is a line of symmetry	
Vertical	Direction of a line	
Horizontal	Direction of a line	
Mirror line	Also called a line of symmetry because the shapes on each side reflect each other	
Reflective symmetry	The shape has reflective symmetry if each shape reflects each other.	
Rotational symmetry	If you can rotate a shape so that it looks exactly the same in a new position	
Order of rotational symmetry	Is the number of different positions in which the shape looks the same as you rotate it through one complete turn (360^0)	

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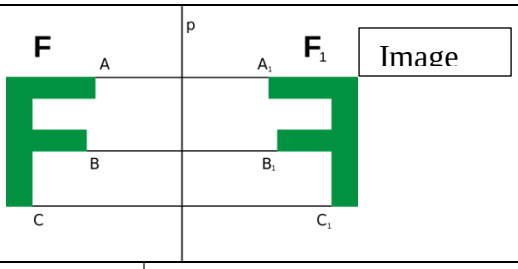
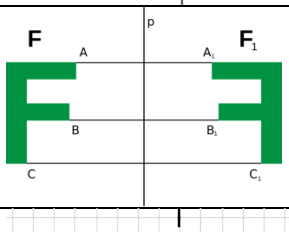
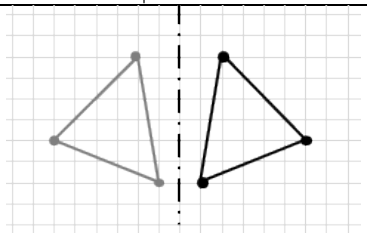
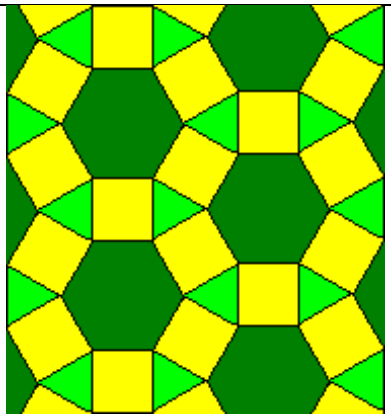
Image	The shape created once reflected	
Object	The original shape Object	
Reflect	To create the same shape where each point is the same distance away from the mirror line as it currently is	
Reflection	The shape once reflected	Look at the above picture. One is the image, one is the original
Tessellation	A pattern made by fitting together copies of the shame shape without leaving any gaps.	

Links to Translations, Reflections, Enlargements, Rotations, using coordinates, vectors and graphs