

KS2.CA.T2	Area of study: Pattern  Unit aims / outcome: To use tessellation to create a pattern in the style of M C Escher.	
Art and Design concepts to organise knowledge: <b>Pattern:</b> To know how to use translation, rotation or glide reflection to create a repeating pattern which tessellates.		
Key strands of learning:		
<b>Disciplinary knowledge:</b> (line, tone, shape, space etc...)		
To use translation, rotation or glide reflection to tessellate a shape to create a repeating pattern.		
	Tier 2  <u><b>New</b></u> Rotation  <u><b>Review</b></u> Repeating Pattern Primary Colours Secondary Colours Tertiary Colours	Tier 3  <u><b>New</b></u> Tessellation Translation Glide Reflection
NC objective:	Vocabulary and crucial knowledge:	
To create sketchbooks to record their observations and use them to review and revisit ideas.  To improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials (for e.g. pencil, charcoal, paint and clay).	<u>Context of study:</u> Children will be inspired by M C Escher, who is best known for tessellating shapes to create patterns. Children will learn that tessellation is a repeating pattern made up of one or more shapes. The shapes should cover an entire surface, leaving no gaps or overlaps. They should fit together exactly. Common examples of tessellation can be found on floor tiles, paths and in nature. Children will learn that triangles, squares and hexagons are all basic shapes which tessellate easily because their sides fit together without any gaps between them. Children will learn that some shapes such as circles cannot tessellate because they cannot fit against each other without any gaps. Children will learn that there are three rules for transforming shapes to ensure that they tessellate. These are translation, rotation and glide reflection. Children will learn how to make their own tessellation using cardboard tile templates. Children will apply their knowledge of tessellation to create their own pattern based on M C Escher's work.  <u>Crucial Knowledge:</u>	

To learn about great artists, architects and designers in history.

To know that a tessellation is a repeating pattern made up of one or more shapes.  
To know that the shapes should cover an entire surface, leaving no gaps or overlaps.  
To learn how to transform shapes to ensure that they tessellate using translation.  
To learn how to transform shapes to ensure that they tessellate using rotation.  
To learn how to transform shapes to ensure that they tessellate using glide reflection.  
To practise tessellating basic shapes (triangles, squares and hexagons) to create patterns using a cardboard tile template.  
To explore making their own cardboard tile template to tessellate.  
To use their cardboard tile template to tessellate and create a repeating pattern.  
To know the **primary, secondary and tertiary** colours.  
To use their knowledge of primary and secondary colours to make decisions about the colours they use in their tessellation.