



TESSELLATIONS

MATH MEETS ART

Colouring with different shades of the one colour make the images more 3D (3 Dimensional)



directed art

engaging

digital

Tessellations

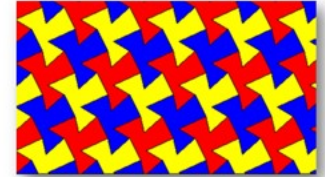
Tessellations and Rotational Symmetry

Art Lesson with Worksheets

KIDS JUST LOVE THEM



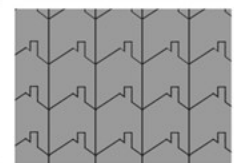
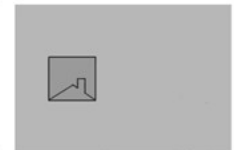
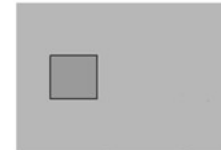
Tessellations



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Tessellations

A tessellation is a design which uses a repeating shape with no overlaps and no gaps. One way to think about them is like tiles on a floor.



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<https://youtube/2KfSdOhgMvk>

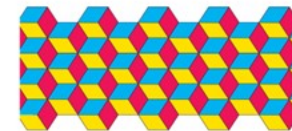
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ANIMATION AND
CARTOON VIDEO**

This is a semi-regular tessellation because while it is a repeated pattern, it has a variety of different shapes. These were especially popular in Islamic, Indian and Spanish decorations. Many other cultures feature tessellations in their architecture.



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You can also create a 3D effect by coloring tessellating shapes in different colors. The tessellating pattern below is created by repeated diamond or rhombus shapes. Three different colors have been chosen to group together three of the shapes to create a 3D cube effect.



On this example below, tessellating triangles have been used with different gradients of the colors. By choosing one color for a group of three triangles and having a light, mid tone and darker shade of the same color, a 3D effect with the tessellation has been created.



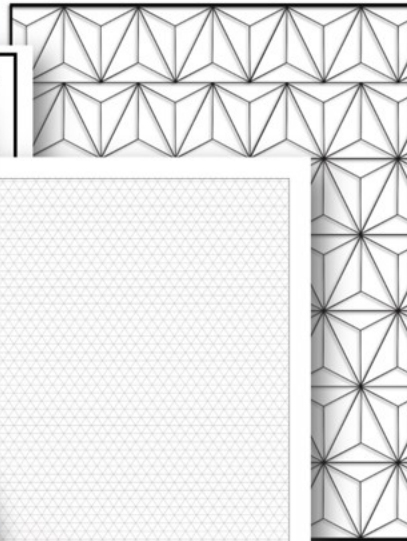
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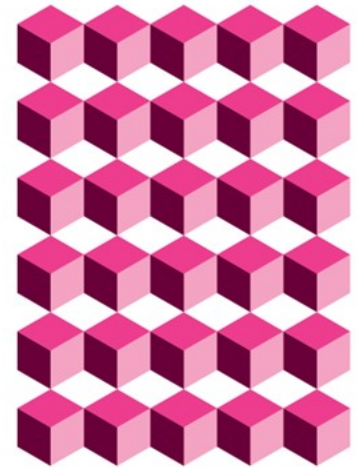
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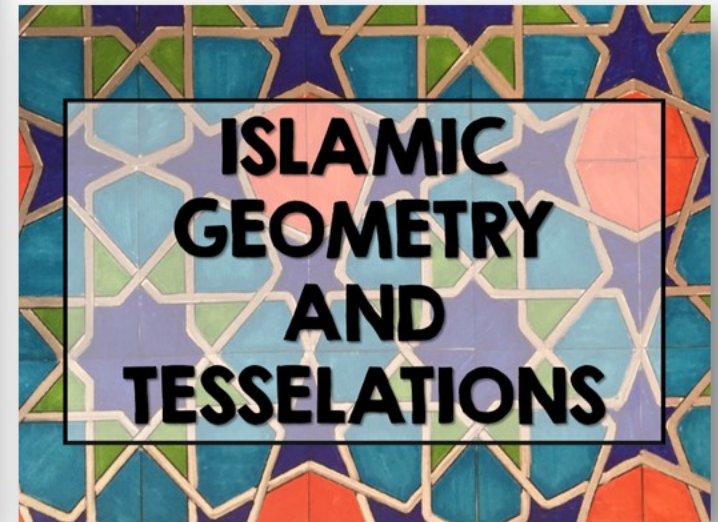
WORKSHEETS AND
GRID PAPER



Coloring with different
shades of the one color
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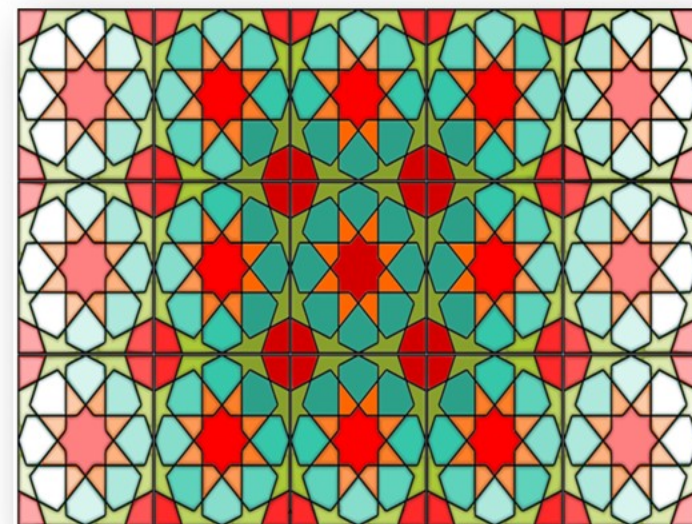
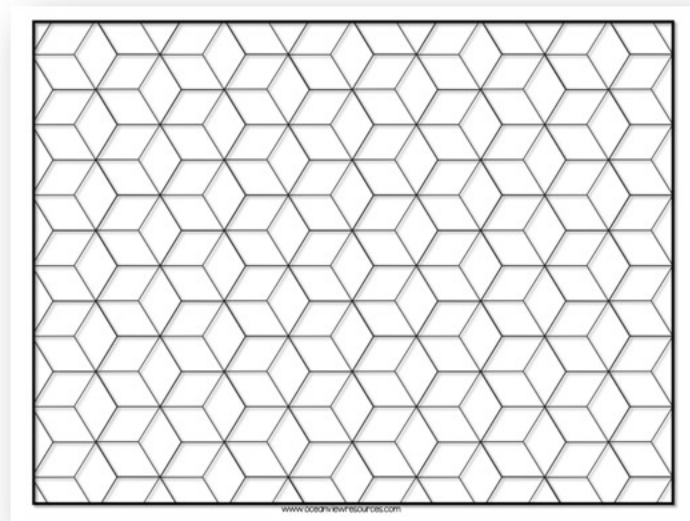
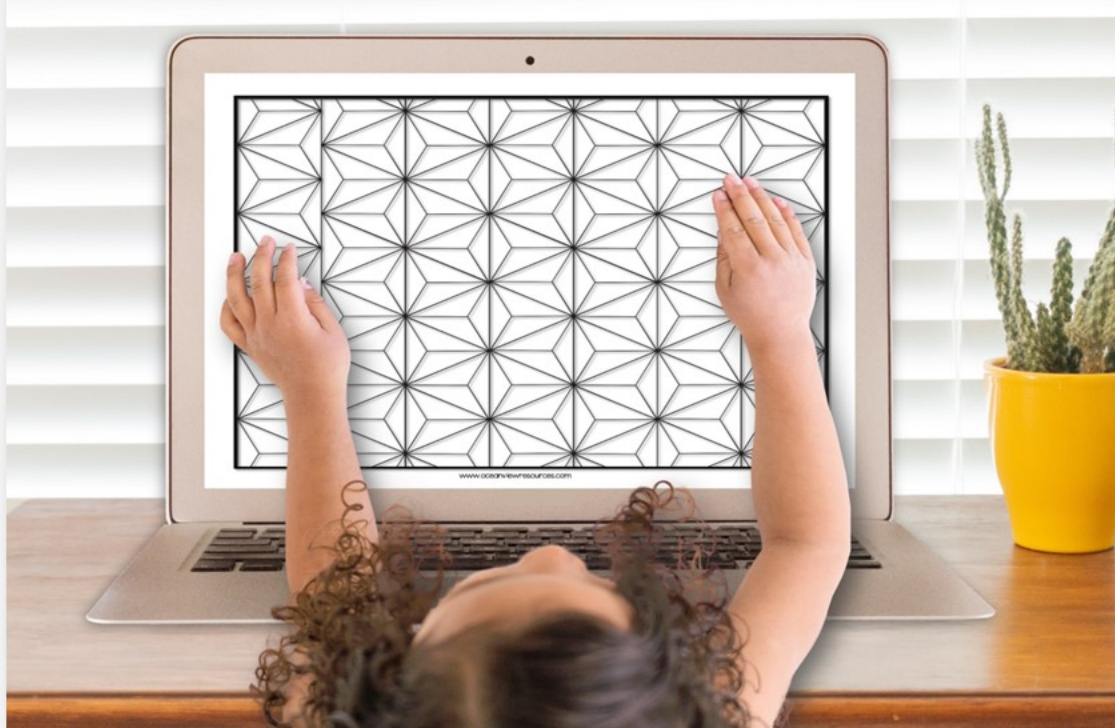
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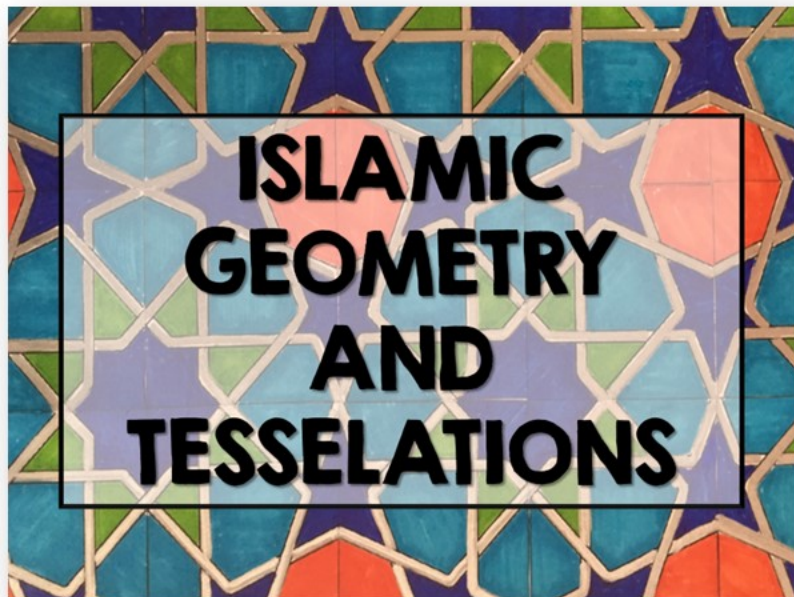


Math Investigation

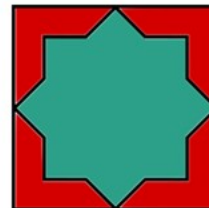
TESSELLATIONS

MATH MEETS ART

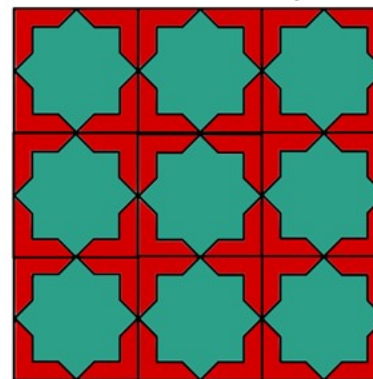




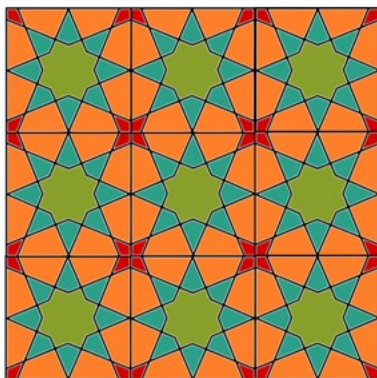
The Khatam Pattern



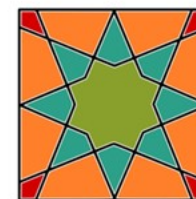
Watch a fun animation of this design.



Watch a fun animation of this design.



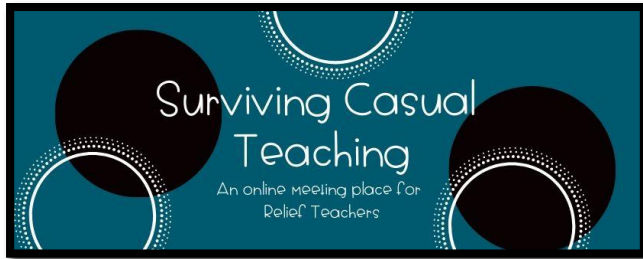
Octagram Pattern





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