



1. Open My Maps – Sign In (gmail account, Google account)
2. Go to: www.google.com/maps, open menu and start by creating a new map.
3. Add four place points with a title, short description, and picture for each.
4. Share it with another partner

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| <p><u>Group A</u></p> | <p>Create a "walking tour" of any place you like, similar to the one in the video above. Be sure to include four custom placemarks with descriptions, a line showing the walking path, and at least one added image (try Flickr CC or Wikimedia Commons) or embedded video.</p> |
| <p><u>Group B</u></p> | <p>Create a custom map of anything you want, local, regional or world-wide, on any topic of your choice. Be sure to include at least four custom placemarks with descriptions, at least one related link (to a website), and at least one added image (try Flickr CC or Wikimedia Commons) or embedded video. es instructions on his site.</p> |
| <p><u>Group C</u></p> | <p>Create your own "math map". Include four custom placemarks, using the images from the street/satellite view to develop the math problems. You can use www.edte.ch/blog/math-maps as your guide. NOTE: If you prefer to contribute a single math problem to one of Tom's existing math maps, you may do that instead!</p> |

5. Add 4 placemarks "Landscape Parks" in your region to my map:
https://www.google.com/maps/d/edit?mid=zu3bdIHmsqfg.kR9_KXYQ0BaY&usp=sharing

HAND(S) ON 2/3

Tour Builder

Go to: www.tourbuilder.withgoogle.com

Create a tour with at least four points

Select create a tour.

1. Fill out name & author fields.
2. Add a photo and brief description of your tour.
3. Select add location.
4. Name location.
5. Add up to 4 photos and a video link and a short description of the location.
6. Select Save Now & Done Editing.
7. Select Share.
8. Chose privacy setting.
9. Copy the URL link to share.
10. Click Done.
11. Share it with another partner and send the link to email: gosiagarkowska@interia.pl



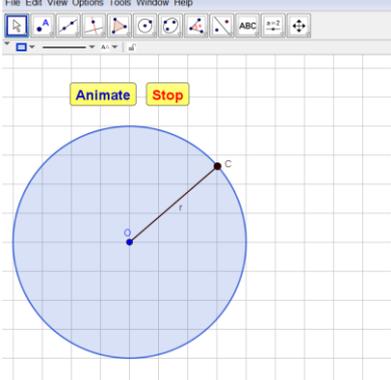
HAND(S) ON 3/3

GEOGEBRA

1. Open GeoGebra



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| <p><u>TASK 1</u> Construct the circumcircle of a triangle by following the construction steps below.</p> | | <p><u>Instructions:</u></p> <ol style="list-style-type: none"> 1. Select tool Polygon. Create an arbitrary triangle ABC by clicking three times in the Graphics View. Close the triangle by selecting the first point A again. 2. Activate tool Perpendicular Bisector. Construct the Perpendicular Bisector for two of the edges of the triangle by successively selecting the segments. Hint: You can find this tool in the Special Lines Toolbox (fourth Toolbox from the left). 3. Create intersection point D of the two the line bisectors. Hint: Successively select the two line bisectors, or click directly on the intersection point. 4. Construct a circle with center D through one of the vertices of triangle ABC. |
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| |  | <p>Hint: First, select point <i>D</i>, then, for example, point <i>A</i>.</p> <ol style="list-style-type: none"> 5. Select the Move tool and drag the vertices of the triangle in order to check if your construction is correct. |
| <p>TASK 2 Construct a parallelogram by following the construction steps provided below.</p> |        | <ol style="list-style-type: none"> 1. Select the Line tool and create an arbitrary line <i>AB</i> by clicking twice in the <i>Graphics View</i>. 2. Create a line <i>BC</i>. Hint: Select point <i>B</i> and then click in the <i>Graphics View</i> in order to create point <i>C</i>. 3. Activate the Parallel Line tool and create a parallel line to line <i>AB</i> through point <i>C</i>. Hint: Select the line <i>AB</i> and then point <i>C</i>. 4. Create a parallel line to line <i>BC</i> through point <i>A</i>. 5. Select the Intersect tool and create the intersection point <i>D</i> of the two lines. Hint: Click directly on the intersection point. 6. Activate the Polygon tool and create the parallelogram <i>ABCD</i> by successively selecting all the vertices. Note: In order to close your polygon, select the first point again. 7. Select the Move tool and drag the vertices of the parallelogram to check if it was constructed correctly. |
| <p>TASK 3 Graph Animation</p> |    | <ol style="list-style-type: none"> 1. Select the Slider tool. Click on the <i>Graphics View</i> and create a slider called a with min: = -5, max: = 5 and Increment: = 1. 2. Select the Slider tool. Click on the <i>Graphics View</i> and create a slider called b with min: = -5, max: = 5 and Increment: = 1. 3. Select the Slider tool. Click on the <i>Graphics View</i> and create a slider called c with min: = -5, max: = 5 and Increment: = 1. 4. In the <i>Input Bar</i> type $f(x)=a x^2+b x+c$ and press Enter on the keyboard. Note the space between the <i>a</i> and the <i>x</i> and the <i>b</i> and the <i>x</i>. The spaces can be replaced by an * to denote multiplication. 5. Move the sliders and see how the graph of the function changes. <p>Alternatively to see the equations change in the Graphics View: Select the Text tool and click on the <i>Graphics View</i> at the position you want the formula for the graph of the function to appear. A new dialogue box appears. Type the following text "$f(x) =$" in the <i>Edit</i> section and select <i>f</i> from the drop down menu under <i>Objects</i> and click <i>OK</i>.</p> |
| <p>TASK 4 Point moving on a circle</p> | | <ol style="list-style-type: none"> 1. Draw circle 2. Select point <i>C</i> on the circle 3. Insert Button: Caption: <i>Animate</i>, Geogebra Script: <code>StartAnimation[C]</code> and apply 4. Insert Button: Caption: <i>Stop</i>, Geogebra Script: <code>StartAnimation[False]</code> and apply  |

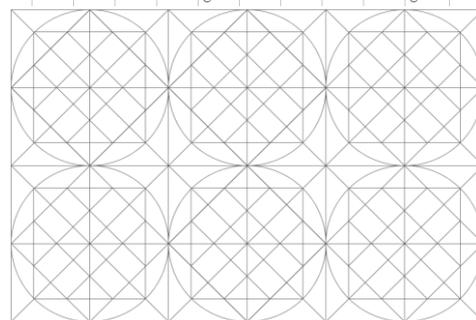
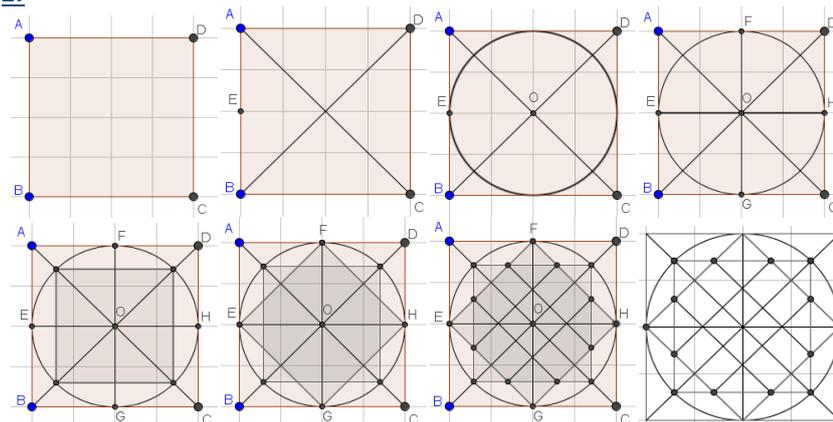
Task 5
Symmetry in the garden

Find Gruyeres castle and the garden in Switzerland using GoogleEarth (Garden - Garden Les Grands-Chemins 1663 Gruyères). You can also "visit" the garden using Street View and construct the parts of the garden in Geogebra.

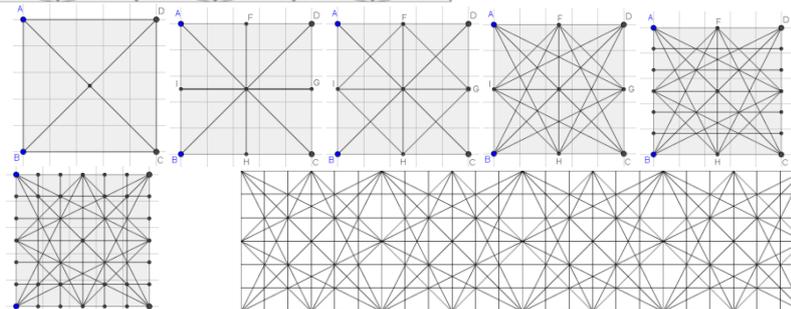


Task 6
Construct different Islamic Patterns

1.



2.



These diagrams show how you can construct one of the most important Islamic patterns.

1. Use Geogebra to construct the pattern(s)
2. Use Geogebra to extend the pattern outwards until you have at least 6 patters in a 3x2 grid.

Share your opinion about the workshop on Padlet in the blog
www.mathscienceseminarwarsaw.blogspot.com



Congratulations, you have finished!