

Overview of Geometry Town

The goal: to demonstrate your understanding of geometric vocabulary, you will be designing and drawing a town map that incorporates many geometric key terms.

The project should be no smaller than 8 ½ by 11, and no larger than a poster board. It can be drawn by hand, or done on the computer, or even a combination of both.

The rough draft is due_____. The rough draft should NOT have any color, but it should have all of the geometric terms drawn and labeled on the map and the legend.

The final draft is due_____

Grading Guidelines:

1. Content (26 points)
 - a. All 26 items are included on your map, and they are numbered clearly
 - b. Position of items demonstrates understanding of the vocabulary terms. Use your Geometry Vocabulary Notes.
 - c. All 26 items should be named on your legend.

2. Creativity (20 points)

Ways to be creative:

 - a. Names (of town, buildings, streets, etc. Please make sure names are school appropriate).
 - b. Design elements (ex. How you design the map, or a path, or a park).
 - c. Materials (computer-generated images, stickers, etc. are encouraged).
 - d. Use of color (it should be colorful!).

3. Neatness (20 points)
 - a. use tools, rulers, stencils, compasses, or protractors to make neat lines and angles.
 - b. Write neatly and legibly ~ your best writing. Use pen for the final.
 - c. Correct mistakes so they are hardly noticeable.
 - d. Color well (uniform use of colored pencils looks best; markers should be used for titles or outlining only).

Your town must include:

- A Title at the Top (the name of your town)
- You must have the NUMBERS labeled on your MAP.
- You must have the names of the items on your legend.

- 1a – b. Two streets (lines) that are **parallel** to each other.
2. A **diagonal** street (line) that is **transversal to the parallel** streets.
3. Add two coffee shops that are located in **corresponding angles**.
4. Draw two gas stations located in **alternate interior angles**.
5. Add two grocery stores located in **alternate exterior angles**.
- 6a – b. Two streets (lines) that are **perpendicular** to each other.
7. A street that is a **ray**.
8. A street that is a **line segment**.
- 9a – b. Draw two roads (**line segments**) that are congruent to each other.
They must be either **intersecting** or **parallel** to each other.
10. Draw a round-about in the the **midpoint** of a **line segment**.
11. Draw a bridge or path that connects **two complementary angles**.
12. Draw a bridge or a path that connects **two supplementary angles**.
13. Draw a hospital in the shape of a **parallelogram** and put it in the interior of a **90 degree angle**.
14. Draw a school in the shape of a **trapezoid** that is in an **obtuse angle**.
15. Draw a post office in the shape of a **rhombus** located in an **acute angle**.
16. Draw a courthouse in the shape of a **pentagon** located at a **right angle**.
17. Draw tow parks (colored green) at **vertical angles** to each other.
- 18a-b-c. Draw three swimming pools, each colored blue: **1 scalene, 1 isosecles, and 1 equilateral triangles**.
19. Draw a **hexagonal** building.
20. Draw an **octagonal** building.

| Legends (Points of Interest) | |
|------------------------------|---|
| 1a. | |
| 1b. | |
| 2. | |
| 3. | / |
| 4. | / |
| 5. | / |
| 6a. | |
| 6b. | |
| 7. | |
| 8. | |
| 9a. | |
| 9b. | |
| 10. | |
| 11. | |
| 12. | |
| 13. | |
| 14. | |
| 15. | |
| 16. | |
| 17. | |
| 18a. | |
| 18b. | |
| 18c. | |
| 19. | |
| 20. | |
| 21. | |

21. Draw a **decagobal** building.

Legends (Points of Interest)

| |
|------|
| 1a. |
| 1b. |
| 2. |
| 3. / |
| 4. / |
| 5. / |
| 6a. |
| 6b. |
| 7. |
| 8. |
| 9a. |
| 9b. |
| 10. |
| 11. |
| 12. |
| 13. |
| 14. |
| 15. |
| 16. |
| 17. |
| 18a. |
| 18b. |
| 18c. |
| 19. |
| 20. |
| 21. |

Name _____
Date _____ Block _____

Grading Rubric for Geometry Map Project

Part One: Content (26 points)

- a. All 26 items are included & numbered on map.
- b. Items are placed properly.
- c. All 26 items are named on your legend.

_____ points out of 26 points.

Part Two: Creativity (20 points)

- a. Creative, school appropriate names are used.
- b. Map Design (items were placed on the map).
- c. COLOR!!!!!!

_____ points out of 20 points.

Part Three: Neatness (20 points)

- a. Geometric tools were used.
- b. Lines are straight. Polygons are neat.
- c. Writing is very neat & legible.
- d. Mistakes are hardly noticeable.
- e. Color looks great. Writing is in pen.

_____ points out of 20 points.

Grand Total of Points:

_____ points out of 66 points.

