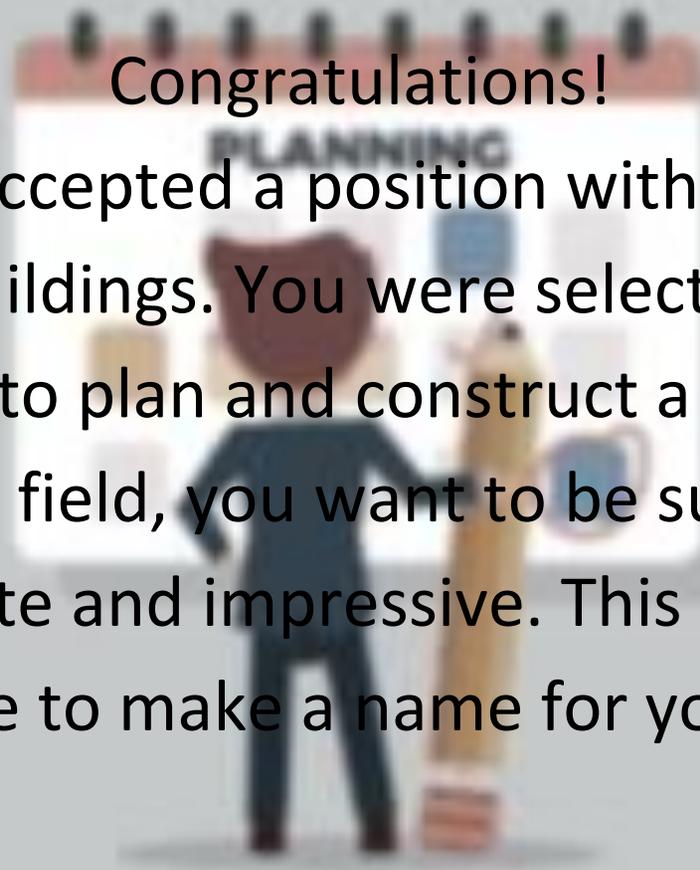


Name _____

Riverside High School

Congratulations!

You have just accepted a position with New York State Department of Buildings. You were selected to work closely with the Governor to plan and construct a new town. Because you're new to the field, you want to be sure that your town plans are accurate and impressive. This new town is your chance to make a name for yourself!



Name _____

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Geometry Map Project

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, done on the computer, or a combination of both.

The final draft is due September 24, 2021.

Grading Guidelines:

1. Vocabulary (25 points)

- All 27 vocabulary words are clearly defined.

2. Content (25 points)

- All 26 items are included on your map, and they are numbered clearly.
- Position of items demonstrates understanding of the vocabulary terms. Use your Geometry Vocabulary Notes.
- All 26 items should be named on your legend.

3. Creativity (25 points)

Ways to be creative:

- Names (of the town, buildings, streets, etc.).
- Design elements (ex. how you design the map, or a path, or a park).
- Materials (computer-generated images, stickers, etc. are encouraged).
- Use of color (it should be colorful! Try not to have any white).

4. Neatness (25 points)

- Use tools, rulers, stencils, or protractors to make neat lines and angles.
- Write neatly and legibly. This should be your best writing! Use pen for the final.
- Correct mistakes so they are hardly noticeable.
- Color well (uniform use of colored pencils looks best; markers should be for titles and outlining only).

Name _____

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Vocabulary: Define EACH word

- 1. Parallel lines:

- 2. Diagonal lines:

- 3. Transversal lines:

- 4. Corresponding angles:

- 5. Interior angles:

- 6. Alternate exterior angles.

- 7. Perpendicular:

- 8. Ray:

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9. A line segment:

10. Congruent lines:

11. A midpoint of a line:

12. Complementary angles:

13. Supplementary angles:

14. Vertical angles:

15. Parallelogram:

16. Trapezoid:

Name _____

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17. Obtuse angle:

18. Rhombus:

19. Acute angle:

20. Pentagon:

21. Right Angle:

22. Scalene:

23. Isosceles:

24. Equilateral triangle:

Name _____

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25. Hexagonal:

26. Octagonal :

27. Decagonal :

Name _____

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 a **transversal to the parallel** streets.
 3. Add two coffee shops that are located in **corresponding angles**.
 4. Draw two gas stations that are 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**.
 - 9 a-b. Draw two roads (**line segments**) that are **congruent** to each other. They do not need to be connected or parallel.
 10. Draw a round-about in the **midpoint** of a **line segment**.
 11. Draw a path or bridge that connects **two complementary angles**.
 12. Draw a path or bridge that connects **two supplementary angles**.
 13. Draw two parks (**colored green**) at **vertical angles** to each other.
 14. Draw a hospital in the shape of a **parallelogram** and put it in the interior of a **90° angle**.
 15. Draw a school in the shape of a **trapezoid** that is at an **obtuse angle**.
 16. Draw a post office in the shape of a **rhombus** located at an **acute angle**.
 17. Draw a courthouse in the shape of a **pentagon** located at a **right angle**.
 - 18 a-b-c. Draw three swimming pools, each colored blue: **1 scalene, 1 isosceles, and 1 equilateral triangle**.
 19. Draw a **hexagonal** building (or neighborhood)
 20. Draw an **octagonal** building (or neighborhood)
 21. Draw a **decagonal** building (or neighborhood)
- Remember – you can add more roads and buildings than those listed above.

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 _____ Per. ____

Grading Rubric for Geometry Map Project

Part One: Content (50 points)

_____ 25

- ✓ All vocabulary words are clearly defined.

_____ 25

- ✓ All 26 items are included and numbered on your map.
- ✓ Items are placed properly.
- ✓ All 26 items are named on your legend.

Part Two: Creativity (25 points)

_____ 25

- ✓ Creative names for roads, buildings, and town
- ✓ Map Design (how items are placed on the map)
- ✓ Materials
- ✓ Use of color (it should be colorful!).

Part Three: Neatness (25 points)

_____ 25

- ✓ Tools, rulers, stencils, or protractors were used. Lines are straight. Polygons are neat.
- ✓ Writing is very neat and legible.
- ✓ Mistakes are hardly noticeable.
- ✓ Color looks great. Writing is in pen.

Grand Total:

_____ 100

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Sample Projects

