Math 1 **City Map Project** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Due:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_

**Directions:** Use the map on the back on this paper to plot each of the lines. Show all work on a separate sheet of paper.

1. Put a dot at the origin
2. Number the x and y axis with small letters
3. Main St. runs through the points (3, 4) and (-1, -4). Draw and label this street. Find each of the following:
   1. Slope
   2. Y-intercept
   3. Write an equation of the line in slope intercept form (y = mx + b)
4. Winchester Ave. runs parallel to Main St. and runs through the point (1, 4). Find each of the following:
   1. Slope
   2. Y-intercept
   3. Write the equation in slope intercept form
5. Sandy Spring Rd. is perpendicular to Winchester Ave. and Main St. It runs through the point (0, 3). Find each of the following:
   1. Slope
   2. Y-intercept
   3. Write the equation in slope intercept form
6. At the point (3, -3) sits the center of beautiful Lake Nelson. This lake is in the shape of a circle with a radius of 1-inch. Draw this lake using a compass. Find each of the following:
   1. If 1 inch represents 500 feet, find the area of the lake.
   2. If 1 inch represents 500 feet, find the circumference of this lake.
   3. Color the lake blue.
7. Wilson Blvd. has a slope that is undefined, and its x-coordinate is -3. Draw and label this road.
8. The points (-1, 0, -3, 0) and (-3, -4) form the triangular Briar Patch Park.
   1. Draw, color, and label this park.
   2. If 1 inch represents 500 feet, find the total area of this park.
9. Handley Ave. has a slope of 0, but its y-coordinate is 2.
   1. Draw and label this road.
   2. List all the streets that will intersect with Handley Ave.
10. Shepard Drive goes from the point (2, -3) and ends where Briar Patch Park and Winchester meet. Draw and label this road and find each of the following:
    1. Slope
    2. Equation written in slope intercept form
11. The famous rectangular Louis Armstrong Park is located at points (2, -2), (2, -4), (5, -2) and (5, -4). Draw, color, and label this park. Find each of the following:
    1. If 1 inch represents 500 feet, find the area of the park.
    2. If 1 inch represents 500 feet, find the perimeter of the park.
12. Jackson St. is perpendicular to Shepard Dr. and runs through the point (1, -2). Find the following:
    1. Slope
    2. Equation of the line in slope intercept form

Math 1 **City Map Project** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Due:** Monday, January 27 Block: \_\_\_\_\_\_

**Directions:** Use this map to plot each of the points on the front. Make sure to color code and label your streets!

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |