CITY MAP PROJECT

*Using a **landscape** layout… Complete the following.*

1. Make a 1 inch grid on your paper using a pencil. Do not make the lines too dark.
2. Put a dot at the origin
3. Number the x and y axis with small numbers.
4. Main St. runs through the points (3, 4) and (-1, - 4). Draw and label this street.
   Find each of the following: *(Put all answers on the answer sheet provided.)*
   a. slope
   b. y-intercept
   c. Write an equation of the line in slope-intercept form. (y = mx + b)

5. Winchester Ave. runs parallel to Main St. and runs through the point (1, 4).
   Draw and label this street.
   Find each of the following:
   a. slope
   b. y-intercept
   c. Write the equation of the line in slope-intercept form.

6. Sandy Spring Road is perpendicular to Winchester Ave. and Main St. It runs though the point (0, 3). Draw and label this street.
   Find each of the following:
   a. slope
   b. y-intercept
   c. Write the equation of the line in slope-intercept form.

7. 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. Color the lake blue.
   Find each of the following:
   a. If 1 inch represents 500 feet, find the area of the lake.
   b. If 1 inch represents 500 feet, find the circumference of the lake.

8. Wilson Blvd. has a slope that is undefined, and its x-coordinate is -3. Draw and label this road. Write the equation of this line in Standard Form.

9. The points (-1,0), (-3, 0) and (-3, - 4) form the triangular Briar Patch Park. Draw, color and label this park. If 1 inch represents 500 feet, find the total area of this park.

10. Handley Ave. has a slope of 0, but its y-coordinate is 2. Draw and label this road. List all the streets that will intersect with Handley Ave.

11. Shepard Drive goes from the point (2, -3) and ends where Briar Patch Park and Winchester meet. Draw and label this road.
    Find the following:
    a. slope
    b. Write the equation of the line in slope-intercept form.

12. The famous Louis Armstrong park is located at the points (2, - 2), (2, -3), (5, - 2) and (5, -3). Draw, color and label this park.
    If 1 inch represents 500 feet, find:
    a. the area of the park
    b. the perimeter of the park

13. Jackson St. is perpendicular to Shepard Drive and runs through the point (1, -2). Draw and label this street.
    Find the following
    a. slope
    b. Write the equation of line in slope-intercept form.