Project: Parallel Lines in the City!

Design your very own city with Parallel Lines, Transversals & Special Angles!

Objectives:

1. Students will demonstrate their knowledge of parallel lines with a transversal.
2. Students will show when angles are congruent or supplementary given parallel lines and a transversal.

Materials needed:

- Pencil
- Colored pencils or markers
- Ruler
- Paper (graph paper, if desired)

Overview:

For this project, you will make a street map for a fictional city (you must name your city). This city will consist of:

1. Two (2) streets that are parallel to each other. Each street needs to be named for reference.
2. Two (2) transversal streets. These need to be named as well.
3. Traffic lights or stop signs at four (4) different intersections.
4. The following buildings, represented in your city:
   a. Post office
   b. Bank
   c. Fire Department
   d. Police Station
   e. Gas Station
   f. School
   g. Restaurant
   h. Grocery Store
   i. Courthouse
   j. Your own house
   k. Library
   l. Park
5. Note: Each building and street must be labeled and names must be school appropriate.

Instructions:

The point of this project is not to place these buildings anywhere, but to demonstrate your understanding of different angles as well as to understand when they are supplementary or congruent. You can still be creative in making your city, but please place the buildings in the following locations.

1. Your house and the school at 
   alternate interior angles.

2. The post office and the bank at 
   Same side interior angles.

3. The fire department and police station at 
   alternate exterior angles.

4. The library and the park at 
   vertical angles.

5. The restaurant and courthouse at 
   Same side Exterior angles.

6. The gas station and grocery store at 
   corresponding angles.

Remember to be creative. You may be as artistic as you would like in drawing the buildings and roads, but be sure to label each one. Creativity will earn extra points!

Project Due Date: April 11th at the END of class!