Urban Planning Project

1. **Research** the following modern model cities and make note of unique qualities and long-term effects in your notes.
   a. Davis, CA, USA
   b. Curitiba, Brazil
   c. Land Conservation and Development Commission in Oregon (Urban and Rural Issues)
   d. Tapiola, Finland
   e. Chattanooga, TN
   f. Boulder, CO

2. **Task**: Apply your knowledge to design a sustainable city.
   a. Your final design needs to be on a full sheet of poster board (which should be divided up into no larger than 32 x 32 grid)
   b. One side of the poster board (the side divided into grids) will serve as your model side. The other side will contain your key and special notes for explanation. Your model can be 2D or 3D.
   c. Due Date ___________________________
   d. You city should include the following minimum numbers: 4 industrial facilities, 2 transportation facilities and transportation routes included, 1 medical facility, 17 city buildings & businesses, 2 water/sewage plants, and 46 homes or apartments.
   e. Consider maximizing personal space
   f. Consider maximizing public space
   g. Describe the hypothesized effects of your city design on human quality of life, urban and suburban animals, weather and climate, noise pollution, air quality, and water quality.
   h. Consider which buildings need to be nearest to each other to maximize transportation and congestion.
   i. Consider which buildings need to be placed apart from others due to sight, smell, noise, or toxicity. Which need to be near each other?
   j. Consider which buildings should be buffered by open/green areas. Consider how adding green spaces can be used to reduce urban sprawl.
   k. Consider how urban agriculture and reduce any negative attributes of a city.
   l. Consider how you design cities so that the people who live there have a sense of community, support, and knowledge of one another.
   m. Consider how the design can reduce poverty and crime.
   n. Determine what configuration of transportation veins would be most useful. What form of mass transportation would be most prominent? How does it fit into the design along with other means of transportation?
o. Consider how you design communities to minimize the need for duplicate resources. Consider ways to reduce waste or concentrated pollutants.

p. Be prepared to present your model and an explanation of your design and the above considerations, as well as strengths of your city design and weaknesses of your city design.

q. You will turn in your poster and give your teacher the presentation link, your notes from the cities in step 1.

3. DUE DATE: _______________