

Name: _____

Class Period: 1 2 3 4 5

Unit 5 Summative

Geometrocity Project

Students, you can demonstrate your understanding of the content in Unit 5 – Area and Volume by creating a geometrocity. You will use your skills to calculate the area, volume, and surface area to make roads, buildings, and public spaces for a town of your own design.

Instructions:

Students you can choose from a list of suggested ideas for buildings and places in your city (see below).

You will create a 2-D map of your town. The map must include a minimum of 4 squares, 2 triangles, 1 parallelogram, 2 rectangles, 1 composite figure, and 1 trapezoid. Your city must have at least 2 intersections and 2 roads that connect to every physical structure and public space.

In the final phase of their project students will use the map to attach 3-D figures and more detailed feature public spaces within their city. They will need to compute the surface area and volume of the buildings or structures and the area of the public spaces (parks, lakes, playgrounds, etc.).

Material:

Markers, colored pencils, grid sheets, rulers, glue, scissors, tape, and creativity!

Due Dates:

Map of the town is due: _____

Final Project is due: _____

Suggested buildings and public spaces:

apartment	house	condo	street
block	road	highway	intersection
duplex	bungalow	terrace	garage
cathedral	church	temple	office
store	pharmacy	restaurant	fast food
diner	station	police station	first station
skyscraper	tower	building	town hall
library	museum	theater	bakery
coffee shop	mall	shopping center	drive-in
dry cleaners	laundromat	department store	county building
courthouse	nursing home	hospital	jail
prison	park	gas station	bowling alley
school	daycare	airport	bank
barber shop	book store	beach	snack shop
gym	arena	stadium	concert venue
college	salon	toy store	arcade