

GEOMETROCITY

To: (your name here)

From: City Council of Geometrocity

Congratulations! You have been chosen to design a new city for us. There were thousands of applicants, but we chose you! We think that your knowledge and skills are just what is needed to create this new city.

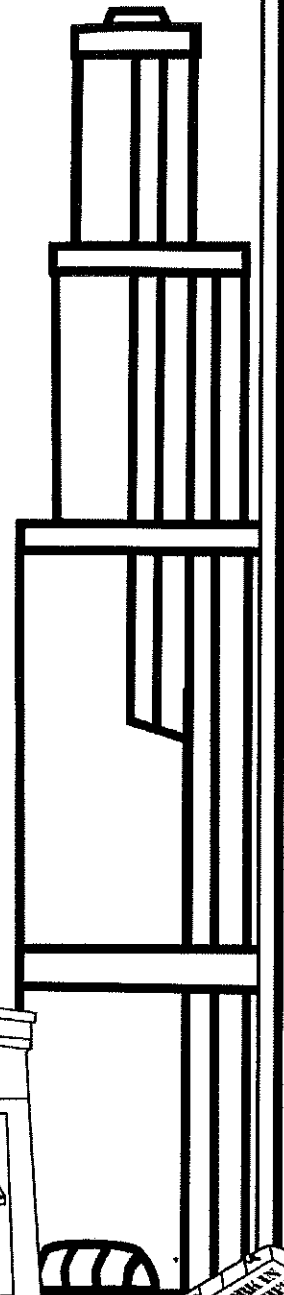
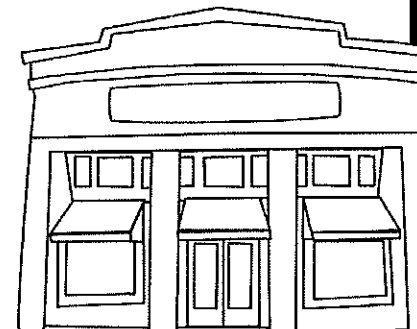
Your job is to create a city filled with math concepts: geometry, to be more specific. Many people don't know this but all cities, towns, and buildings are created with math skills as a foundation. This city will be no different and it will be important for you to showcase your geometrical skills to make this a successful place.

You are the architect. You will determine whether this city succeeds or becomes bogged down in city politics and never develops. As lead architect, you will be tasked with creating city infrastructure such as buildings, roads, parks, and more. Along the way, you will have specific design elements that must be incorporated with each portion of the city.

This entire project can be completed individually or you may work with a team. The city council feels comfortable that you'll make the correct decision.

We look forward to seeing your work.

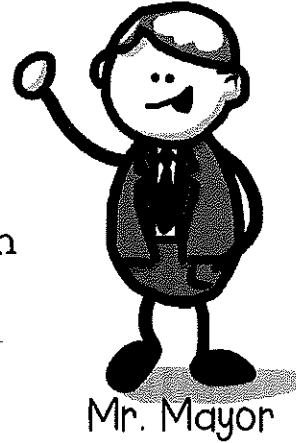
Sincerely,
City Council



GEOMETROCITY

“Welcome to the city that you’re going to create!”

“You’ll notice that this page is kind of blank, just like our city. Take a couple of minutes and brainstorm words that describe cities. Write them everywhere on this page. I’ll begin.”



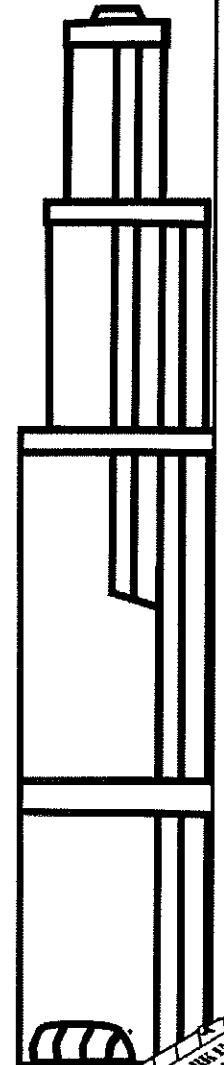
ROADS

electricity

BUILDINGS

condos

workers



PHASE ONE: PERMITS

Your knowledge is impressive. I've got one last test for you.



I want you to draw a map of your school. That's right! Draw your School!

DIRECTIONS:

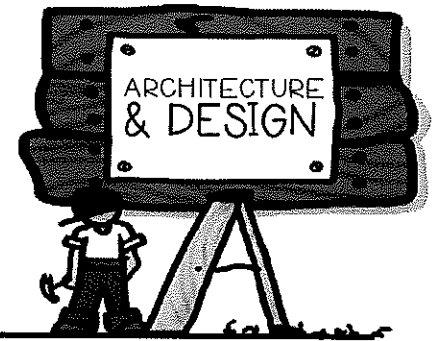
In the area below draw an overhead (aerial) view of your school. Label the locations on the listed below. You may add as much detail or design elements as you want.

- PLAYGROUND
- LIBRARY
- GYM
- CLASSROOM
- OFFICE
- HALLWAY
- CAFETERIA
- YOU PICK

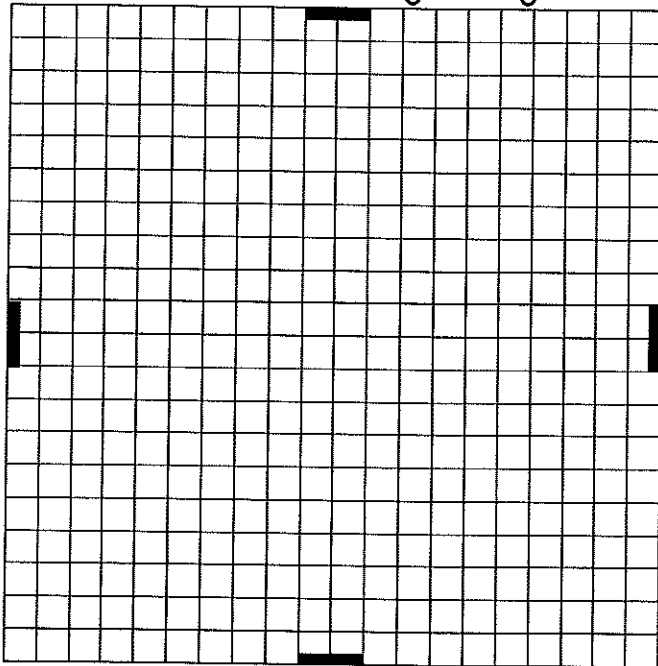
PHASE TWO: DESIGN & BUILD

On the next few pages you'll build your city using these sections:

- Downtown
- Suburbs
- City Hall
- Industrial Park
- Public Works
- Business District
- City Living
- Entertainment
- Park District



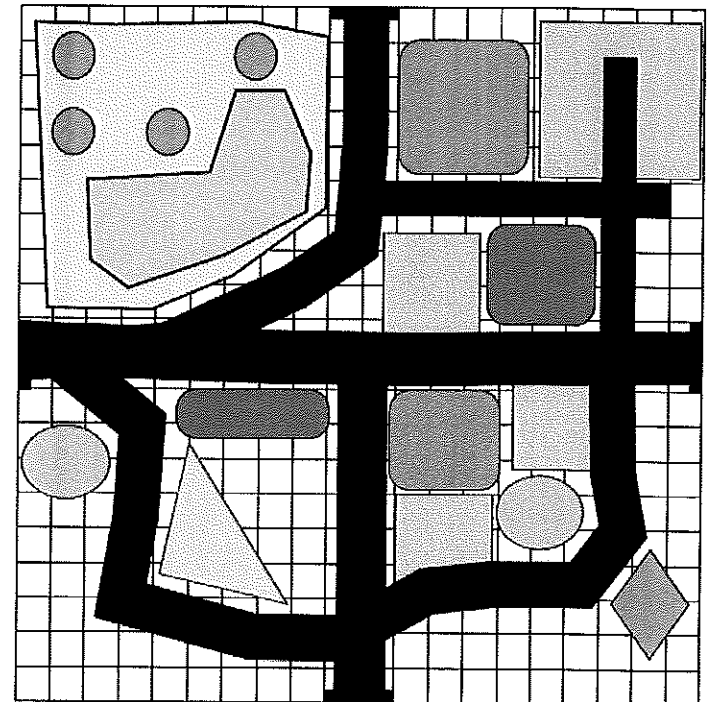
Each section looks like this at the beginning.



Your job is to fill this section using the listed requirements and your creativity to build Geometrocity.

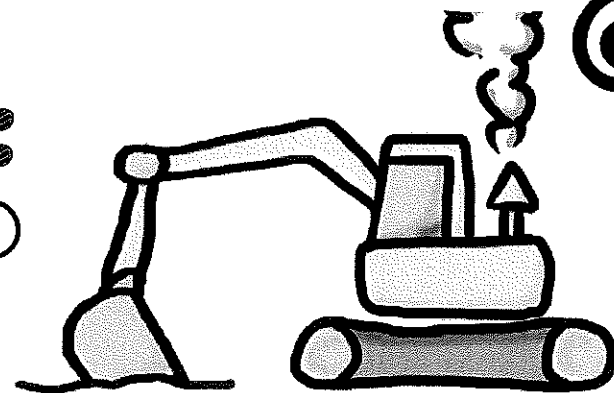


You get to make it look like this.





PHASE TWO: DESIGN & BUILD



CHECKLIST

Over the next few pages on the right side of the paper will be a checklist. You must include all of these elements into each of the sections.

You'll notice that the first 7-9 items are geometry and the last few are areas within a city. You may combine some of these elements together if you want.

Check off each one when you complete it to help you stay organized.

You are encouraged to add many more elements to each section to create a thriving city.

<input type="checkbox"/>	2 SQUARES
<input type="checkbox"/>	PENTAGON
<input type="checkbox"/>	4 POINTS
<input type="checkbox"/>	RECTANGLE
<input type="checkbox"/>	RIGHT TRIANGLE
<input checked="" type="checkbox"/>	ELLIPSE
<input type="checkbox"/>	OBTUSE ANGLE
<input type="checkbox"/>	PARALLEL LINES
<input checked="" type="checkbox"/>	ROTATION
<input checked="" type="checkbox"/>	PARKING GARAGE
<input type="checkbox"/>	SKYSCRAPER
<input type="checkbox"/>	HOTEL
<input type="checkbox"/>	RESTAURANT

LABELING

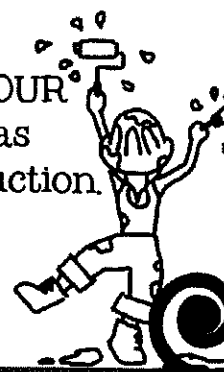
You should label your geometry answers as best as possible through highlighting with markers, colored pencils, pens, or crayons.

Try and make the geometry pop out, but also blend in at the same time. This can be a difficult skill, but with practice you'll accomplish it.

DO TRY and label buildings, roads, parks, and other aspects of the city.

You will have to write neat and small. TAKE YOUR TIME! Make it take just as long as real road construction.

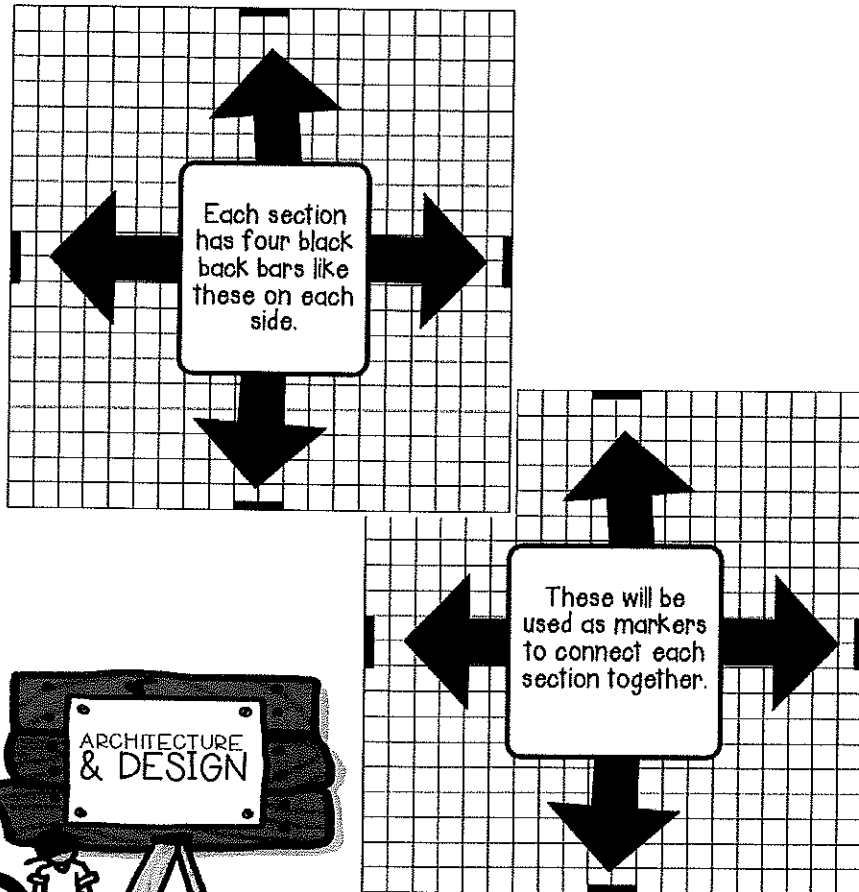
GOOD LUCK!



PHASE TWO: DESIGN & BUILD

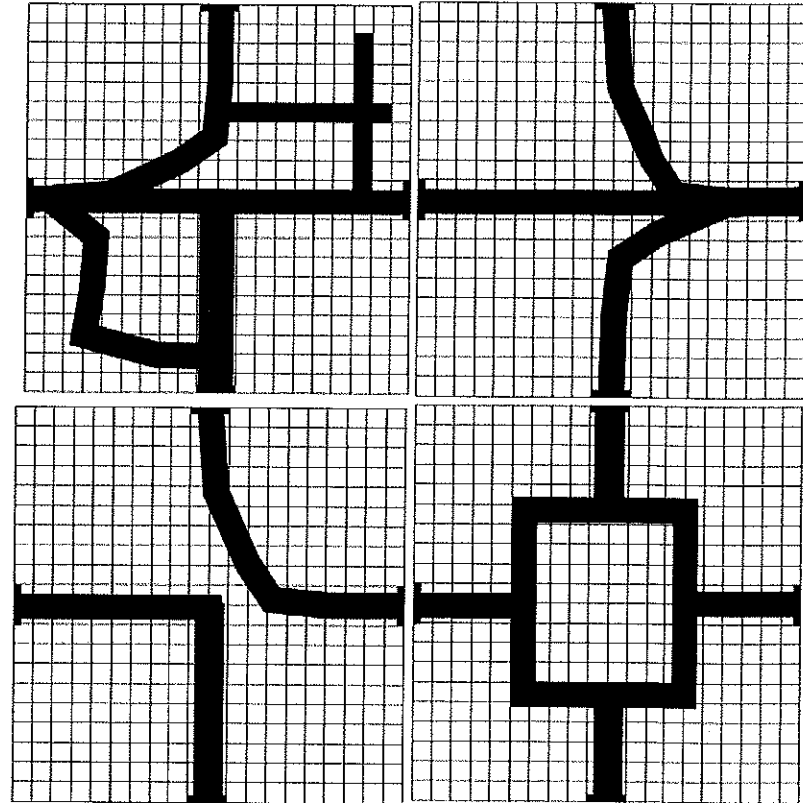
Each section has four black bars on each side. Look at the images below for reference.

**You MUST have roads coming in and out at each black bar per section. You may add more roads in each inside each section.



The roads must begin and exit on those spots so you may piece it together when you are all finished.

See how all the roads can connect below.



PHASE TWO: DESIGN & BUILD

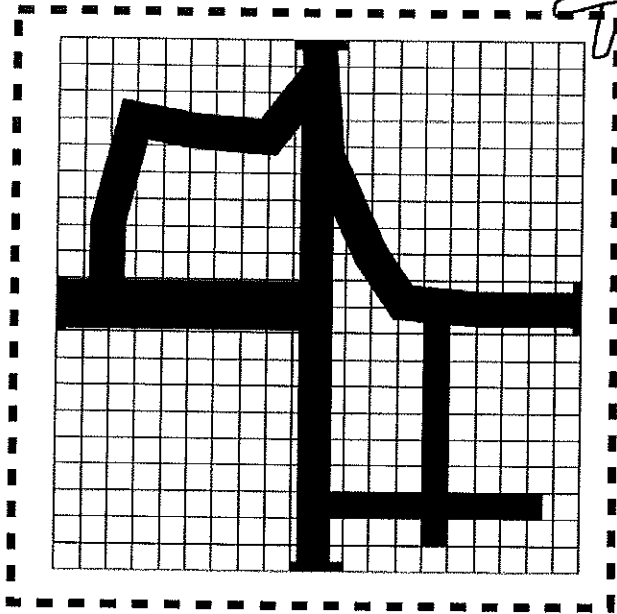
Use this list of places to assist you in building your city.

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



PHASE THREE: CONSTRUCTION

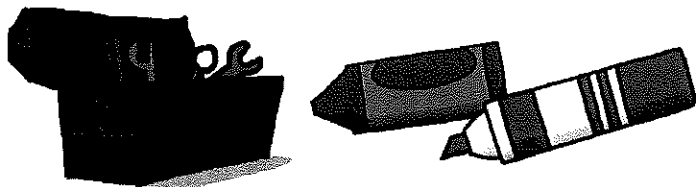
Take each section from Phase Two and cut them out.



GO SLOW when cutting!

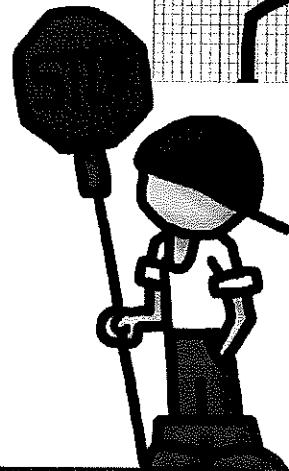
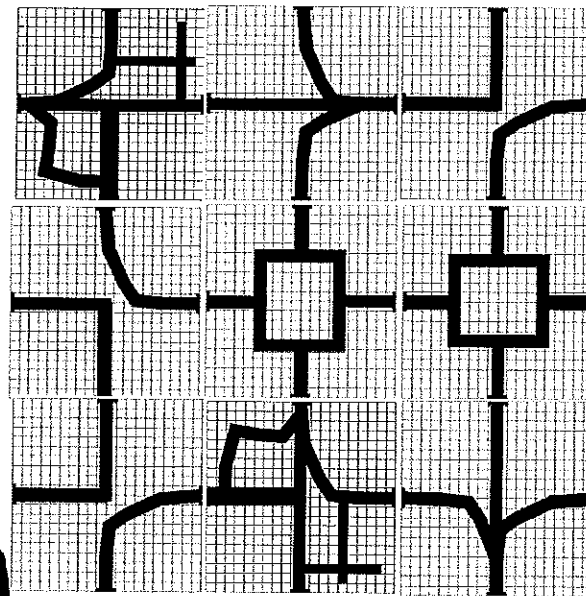


REMEMBER: Add color to all the city sections. It adds details and looks great.



When all the sections are cut out, lay them down and begin to visualize how you would like your city to look.

If you cut out nine sections it would look something like this.



Go to the next page after you cut and laid out all your pieces.