

APES Sustainable City Project

So far in APES we have covered a fair amount of topics I. Earth Systems and Resources A. Earth Science Concepts, B. The Atmosphere, C. Global Water Resources and Use, D. Soil and Soil Dynamics; II. The Living World A Ecosystem Structure, B. Energy Flow, C. Ecosystem Diversity, D. Natural Ecosystem Change, E. Natural Biogeochemical Cycles; III. Population A Population biology concepts, B. Human population; IV. Land and Water Use A. Agriculture, B. Forestry, C. Rangelands, D. Other Land Use, F. Fishing, G. Global Economics; and VII. Global Change C. Loss of Biodiversity.

Using these concepts and looking ahead to V. Energy Resources and Consumption your task is to build a sustainable city.

You are going to be creating a suburban city. Your project should be in the form of a proposal. You are now a city planner, you should do research on what is necessary in a development proposal. You must make sure that you include all the necessary information including but not limited to:

Landscape (topography, oceans/rivers/streams/lakes/reservoirs/etc, parks, forests, preserves, etc.)

Infrastructure (roads, highways, airports, public transport, structures, parking lots, water delivery, waste management, utility companies)

Structures (homes, commercial properties, zoning, retail, apartments, entertainment venues, government buildings)

Community needs

Physical (food, water, clothing, shelter, energy)

Safety and security (medical care, police, fire, relations with surrounding areas)

Social

Use of SUSTAINABLE solutions

your design should show careful thought and planning

think about ALL required goods and services

think about the types of energy needed and what types of energy sources you will utilize

identify and crops that are grown and why those crops are selected

name your city

make your proposal reasonable but remember to be creative!

What you will be handing into me is:

to scale map of your city (make it organized and NEAT)

formal written proposal (remember you want to WOW with your proposal HINT do some research by reading other REAL city development proposals)

minimum of 5 credible MLA or APA cited sources

I will be grading you on your use of multiple topics in APES

Due DATE: MARCH 14th 2016