Build-a-Village

Congratulations! You have been tasked with colonizing Eich Island. You are the mayor of a new village. You get to decide what kind of buildings will be in the village, how the land will be used, and how the people will live.

Each mayor receives an 8x10 acre plot of land (8x10 square piece of graph paper). With this small space, you must provide your future citizens with enough space to live, access to resources, and entertainment. **You must fit a population of *at least* 100 people.** *You may build however many of whichever building type otherwise.* On the graph paper, the lines represent roads between different plots of land (the squares). Some zones will take up more than one square.

You will zone the land with the following choices:

Housing Zoning:

Zoning Type	Size	Population Support
Ranch	2x2	10
Suburban Houses	1x1	4
Cottages	1x2	8
Condos	1x1	8
High-rise Apartment	1x1	20

Entertainment and Environment Zoning:

Zoning Type	Size	Zoning Type	Size
Stadium	3x3	Business Complex (Note which businesses are there)	2x2 or 4x1
Grocery Store	2x1	Police/Fire Station/School	1x2
Library	2x1	Farmland	1x1
Gym	2x2	Forest Land	2x2
Park	2x2	Open Space	1x1
Hospital	3x3	Water	1x1

Advertise: On the back of the village plan graph paper, explain why someone would want to live in your model village. It must include the following:

        Name of your village
        Slogan for your village
        3 selling points, or facts, explaining why people would want to live in your village.
        Advanced (⅚ on rubric): Create an advertisement poster for your village with the same info as above

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Every day, humans use a tremendous amount of resources. Water for cleaning and washing, lumber and metal for buildings, fiber and fertilizer for food or clothes all must come from the planet earth. This is a reality that will never change. Humans must use the earth's resources to provide for themselves. But we also must preserve the earth in order to sustain a natural community.

Americans live in a combination of communities, but most live in cities. Take a look at the example city built as a conglomeration of villages. Every house and building takes up resources. Every piece of natural land can provide resources. As governor of Eich Island, I took a small selection of village plans and combined them into a city. Some zones use up resources, while others provide them. Note the resources below.

Resources used daily by our city: _____

Resources available in our city: _____

1. Which aspect of our city took up the most resources?

_____
_____
_____

2. Which aspect of our city provided the most resources?

_____
_____
_____

3. In a paragraph of about 7-10 sentences, explain some possible solutions to humans using too many resources. How can we use less? How can we preserve what we have? What scientific ideas can help solve these problems?

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Criterion D: Reflecting on the Impacts of Science	i. describe and summarize the various implications of using science and its application in solving a specific design problem or issue iii. apply communication modes effectively	Criterion Made Simple
0	Doesn't meet any of the criteria below	Did not turn in project
1-2	i. state the ways in which science is used to address a specific problem or issue iii. apply scientific language to communicate understanding	i. Provides a list of solutions without reasoning iii. Creates an incomplete village with little to no explanation
3-4	i. state the ways in which science is used to address a specific problem or issue iii. sometimes apply scientific language to communicate understanding	i. Provides a vague summary of solutions without mentioning scientific ideas iii. Creates a complete village with vague or unrealistic reasons to live in village
5-6	i. outline the ways in which science is used to address a specific problem or issue iii. usually apply scientific language to communicate understanding	I. Provides multiple solutions with scientific reasoning Iii. Creates a complete village with detailed reasons to live in village
7-8	i. Summarize ways in which science is used to address a specific problem or issue iii. consistently apply scientific language to communicate understanding iv. document sources completely	I. Provides multiple solutions with detailed scientific reasoning from outside sources Iii. Creates an artistic village with detailed reasons formatted as an advertising flyer