**Building a Sustainable City**

Your group has been commissioned to design and build a sustainable city. You will need to decide where to build your city, how your city will be powered, what building materials to use, and how your city will promote sustainability to its citizens.

**Step 1: City Basics**

1. What will be the name of your city?

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1. Where will you build your city? (*Remember to consider how your geographic location will be advantageous to how your city is powered, how citizens will use the power, live, work, etc.)*

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1. Include a map of where your city will be built.

**Step 2: Powering your city**

1. How will you provide electricity, heat, and water in your city?

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1. What about this power source makes it sustainable?

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1. How much money will it cost you to power your city? Assume that your city will be home to 30,000 citizens. (*Take into account the average household size, and energy consumption.)*

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**Step 3: Sustainability in the Work Place** Like most cities, chances are you will have a business sector in your town. This is where you will need to think of how to keep your city sustainable while also catering to the needs of large corporations.

1. What measures will you take to ensure that large office buildings are built to promote sustainability?

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1. In what way could you architecturally design your large corporate buildings to be as sustainable as possible?

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**Step 4: Sustainability for the Home** Your city will inhabit around 30,000 citizens. How will you build homes to be as sustainable as possible?

1. What types of building materials can be used to build homes for your citizens to promote sustainability? (*You may want to consider the natural surroundings.)*

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1. What types of incentives would you provide your citizens to promote a sustainable lifestyle at home?

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1. Draw a simple blueprint of a standard home built in your city. Remember to keep in mind the size, building materials, and size of the average family in the location you have selected.

**Step 5: Getting Around**

1. How will the people of your city get around? What types of public transportation options will you provide?

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**Step 6: Promotion the Sustainable Lifestyle**

1. What types of activities or events will your city participate in to promote a sustainable lifestyle?

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1. What happens to the waste/trash that the people in your city throw away?

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1. Where does your city get its food products? If you choose to have an agricultural industry, what are the best agricultural practices to promote sustainability?

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**Step 7: Design your City** Start designing the blueprint for your city! Make sure to include and label at least the following:

* Homes, Commercial, Intuitional, Agricultural
* Transportation (Roadways)
* Green Spaces
* Power Grid
* Water system
* Geographic features of your location

You will be creating your city blueprint on a poster. **This poster MUST be colored and to scale.**