**Urban Farm Research Prep**

Each team of students must envision your city of the future. Here are a few guidelines:

* **It will be a medium sized city (under 1 million people)**
* **Location of it will be determined by the student, e.g. is it under water? On a mountain top? Note that it must be on Earth.**
* **What is the climate like in your city?)**

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**Your Challenge: Select one vegetable and one protein and design a way to grow enough of each within your Future City limits to feed your citizens. Note that your protein can also be a *plant* protein.**

***Things you need to find out about before you create your design in 3DTin:***

Your protein & vegetable choices are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Research your protein and vegetable choices finding things out about them like:*

1. Their nutritional value.
2. How practical they would be to grow in an urban environment.
3. Growing requirements.
4. Harvesting requirements (if applicable).
5. Growing cycles.
6. Food preferences based on cultural/ethical preferences.
7. How long would it take to produce a crop?
8. Are some foods easier to grow in an urban setting?
9. Are some foods more culturally appropriate?
10. What would be the typical yield of your crop on an urban farm?
11. Can they be grown in an energy efficient way?

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*Once you find the answers to the questions, you must create a presentation using Google Drive Presentation, haiku deck (*[*https://www.haikudeck.com/*](https://www.haikudeck.com/)*) or any other presentation software of your choice (get approval from your teachers please).*

***Your presentation must include the following information****:*

1. Introduce the protein and vegetable that you have chosen and explain why you selected them.
2. Explain how those foods meet the nutritional needs and food preferences for the city.
3. Describe the farm environment that you designed, explain how It works, where it is located and why it’s the right solution for the Future City.
4. Explain how your design meets your two foods’ basic requirements for light, soil, water, nutrients, temperature, air quality, controlling pests and space (area from planting to birth to harvesting).
5. Discuss how your urban farm will produce enough of each food to supply all of your citizens for at least one growing season.
6. Explain how your urban farm is energy efficient.
7. Summarize explaining why your urban farm is a good way to provide local, healthy, abundant foods for your Future City.

Note: the presentation must include 8 slides. One for the information noted above and the last one for your cited sources using <http://www.bibme.org/>

or <http://www.easybib.com/>