



EPISODE 1

CHECKLIST

ONCE YOU HAVE COMPLETED THE TASK. PUT AN "X" IN THE BOX

- Make a 4" X 4" box in the bottom right hand corner and list all the names (first & last, class period) of the community design team.
- At the top center of the poster make a 3" X 12" box to write in the name of your city. Name the city.
- In the upper left hand corner make a 6" X 8" box. Title this box: Evaluation.
- Make a 6" X 10" box in the bottom left hand corner In this box your design team will firstly *describe the geographical location of your city* and secondly *brainstorm a list all of the essential supplies, protective safeguards, city wall materials, types of buildings and natural resources you will need to have a healthy, surviving society* (hint: it is more than 5).
- Draw a map of your city. Carefully consider the location of where buildings and structures may be placed to better ensure the survival of the people.
- Label the mapped structures and locations with **BLACK PEN**. Next to your city wall *describe the materials used to construct it*.



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EPISODE 3

CHECKLIST

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- Your design team has returned from visiting the other cities. If your team would like to make adjustments to your city design do so now. **Label the structure with BLUE PEN.** This is only to show that it was added after your visit to other cities and does not affect your evaluation.
- Now that your city map is complete, use the plant cell organelles listed below to match up specific organelles with the structures/locations in the city.
- Discuss the function of each organelle as a group. Determine together which city structure best matches the organelle.
- Write the cell organelle near your city structures in **RED PEN.**
- Write a one sentence justification in **PENCIL** below the structure/location as to why this represents the organelle.
- If you are missing an organelle, you may add a community structure/location to your city map in **BLUE PEN** (this does not affect your evaluation). Label the organelle in **RED PEN.** Be sure to add your justification sentence.
- In the upper left hand corner create a box. In this box evaluate your city. How many structures did you initially come up with? Did you have to add any after you looked at other cities or the organelle list? Do you think your community will survive? Why or why not? Explain.

PLANT CELL ORGANELLES

Cell Wall: Stiff material surrounding the cell and outside the cell membrane. It supports and protects the plant cell.

Cell Membrane: Protects and surrounds the cell, it also regulates what substances come in and out of the cell.

Nucleus: Directs all the activities of the cell.

Mitochondria: Supplies the cell with the energy it needs by releasing energy stored in food.

Ribosomes: Produce proteins for the cell.

Golgi body: Receives proteins and packages them for distribution to other parts of the cell.

Endoplasmic Reticulum: Passageways that carry proteins and other materials from one part of the cell to another.

Vacuoles: A membrane bound sac in the cytoplasm that stores water, food, and waste products.

Cytoplasm: A gel-like fluid in the cell in which the cell organelles are found.

Chloroplast: Captures energy from sunlight to make food for the cell. Photosynthesis occurs here.