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Lesson: Cells and Cell System

Name:

Teacher:

Date:

CELL MODEL PROJECT – BLUEPRINT REPORT

(Group Preliminary Output: *Due before building the model*)

Group Members:

Objective of This Project

To design a 3D model of either a plant cell or animal cell using recycled and creative materials. The model must clearly show the major organelles, their structure, and their functions. This blueprint helps your group plan your design, divide responsibilities, and follow the Engineering Design Process.

1. Cell Type Selection

Our group chooses to model a (circle one):

PLANT CELL / ANIMAL CELL

Reason for choosing this type of cell:

2. Materials Planning

List all materials your group will use:



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3. Projected Model Design – SKETCH SPACE

Draw your planned cell model here. Include organelles and where they will be placed.



Who will bring each material?

| Material | Group Member Responsible | Source (home/school/recycled) |
|----------|--------------------------|-------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

4. Building Plan (Step-by-Step)

Write out your construction process clearly.

1. _____
2. _____
3. _____
4. _____
5. _____

5. Engineering Design / Scientific Method Questions

Answer in complete sentences.

1. Ask – What is the goal of this project?

2. Imagine – What model ideas did your group think of before choosing one?

3. Plan – Why did your group choose this design?

4. Create – What challenges do you expect? How will you solve them?



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5. Improve – What part might you need to revise after building? Why?

6. Team Roles & Responsibilities

| Group Member | Role | Duties |
|--------------|------|--------|
| | | |
| | | |
| | | |
| | | |

7. Teacher Notes / Approval

Blueprint Approved: YES / NO

Comments:
