PROKARYOTIC vs. EUKARYOTIC CELL BIFOLD

Student Directions • Cut, Fold, Glue, Color & Compare

IMPORTANT — DO THIS BEFORE YOU CUT: Glue a sheet of lined notebook paper to the inside of your bifold first. Smooth it down securely, then allow the glue to set before cutting or folding the template.

STEP 1 — GLUE BEFORE CUTTING: Glue a sheet of lined notebook paper to the inside of your bifold. Smooth it down securely.

STEP 2 — FOLD HAMBURGER STYLE: Fold the entire paper in half lengthwise (hamburger style), with the short edges together. Crease the fold firmly.

STEP 3 — CUT ONLY THE TOP HALF: With the paper still folded, cut ONLY along the middle line on the TOP HALF of the paper. Do NOT cut the bottom half. This creates the two front flaps.

STEP 4 — OPEN AND COMPLETE: Open the paper and follow the remaining directions for gluing, coloring, labeling, and completing the Five Facts.

1. OUTSIDE FLAPS — FRONT COVERS

Do not cut yet if you have not completed the notebook-paper step above.

- Glue the appropriate cell image to the front cover on the correct side: Prokaryotic Cell on left flap and Eukaryotic Cell on the right.
- Color the cell image neatly.
- Make sure to match the key for cell structures with the same color in the picture (color the box for Ribosome (R) purple then color all the ribosomes in that picture purple)
- Make sure the two front covers are clearly labeled PROKARYOTIC CELL and EUKARYOTIC CELL.

2. INSIDE TOP FLAPS— CELL DESCRIPTION

- Use complete scientific vocabulary rather than single-word answers.
- In 3-4 sentences minimum give a brief description of the cell type, include examples!

3. INSIDE BOTTOM FLAPS— FIVE FACTS

Complete BOTH Five Facts lists in the SAME ORDER. Each numbered fact should describe the same characteristic for both cell types so the two cells can be compared directly.

FACT	PROKARYOTIC	EUKARYOTIC
1. Relative Size		
2. Location of DNA		
3. Ribosome Size		
4. Organism Type		
5. Reproduction / Cell Division		

4. FINAL CHECK

- ☐ Both cell images are glued to the correct front flap.
- ☐ Both cell images are colored and labeled.
- ☐ The cell description is written using complete sentences and includes examples.
- ☐ All FIVE facts are completed for BOTH cell types.
- ☐ The Five Facts are written in the SAME ORDER on both sides for direct comparison.
- ☐ DNA location, ribosome size, organism type, and reproduction/cell division are specifically addressed.
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✂ CUT where indicated on the template | — FOLD along the fold lines | GLUE the cell images to the designated front covers