

Name: _____ Date: _____

Gelatin Cell Model

Purpose: To compare plant and animal cells

Materials Needed

plastic sandwich bags
raisins

For each batch:

2 $\frac{1}{2}$ cups boiling water

half-pint milk cartons (with tops removed)
celery, cubed

4 packages lemon gelatin



Procedure

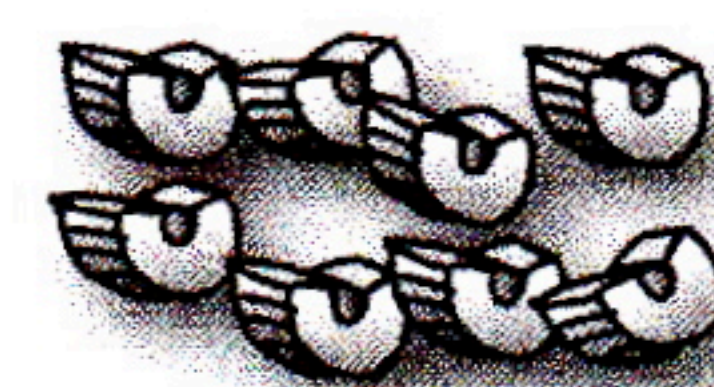
Day 1

Step 1: Line the milk carton with the sandwich bag, allowing the excess part of the bag to extend over the edges of the milk carton.

Step 2: Stir gelatin into boiling water until dissolved.

Step 3: When the gelatin has cooled but not gelled, pour $\frac{1}{4}$ cup into each lined carton.

Step 4: When the mixture begins to gel, have all students gently push a raisin (nucleus) into the gelatin. Give half the students several celery cubes (chloroplast) to add to their gelatin. Refrigerate overnight.



Day 2

Step 1: Prepare a second batch of gelatin mixture. Slowly add $\frac{1}{4}$ cup of the mixture to each milk carton.

Step 2: Once the mixture has completely cooled, close the sandwich bag.

Step 3: Refrigerate the cartons of gelatin until the gelatin is firm.

Step 4: Students with celery in the mixture leave their sandwich bags in the carton. Students without celery take their sandwich bags out of the carton.

Conclusion

Which model represents an animal cell and which represents a plant cell? Explain your answer.
