

Chapter 18

Use with Section 2

ENRICHMENT

● Cell Organization

Building a Cell

Make a three-dimensional model of a cell using the following guidelines.

Materials  

glass cake pan or bowl

light-colored gelatin

various small items to make cell parts (may be food or nonfood items)

Procedure

1. Decide what items you will use to represent each of the cell parts listed below. Refer to the diagram of a cell in your textbook for ideas for the shapes and sizes of cell parts.
2. Prepare enough gelatin to fill your glass container about half to 3/4 full. Follow the instructions on the gelatin package.
3. When the gelatin becomes thick enough, add your cell part items to the gelatin.
4. Refrigerate your cell to finish setting.
5. Once you have built your cell, organize your information in the table below.

Data and Observations

Cell part	Item used	Function of actual cell part
cell membrane		
nucleus		
chromatin		
endoplasmic reticulum		
ribosomes		
mitochondria		
Golgi bodies		
vacuoles		