

Cell Booklet Activity

Objective:

To create a booklet explaining the cell processes, functions of the organelles, and cell membrane & wall

Materials:

- Index Cards (4x6 preferred, but 3x5 acceptable)
- Pictures of cellular organelles (textbook, internet)
- Illustrations of Cellular Processes
- Illustrations of the Cell Processes
- Yarn or string
- Markers or colored pencils

Procedure:

- ❖ Using index cards, students will make their own illustrations of cellular organelles. The drawings will accurately portray the organelles as closely as possible.
- ❖ The drawings will include labels of key organelle parts.
- ❖ The use of longitudinal, cross-section, and exploded views are recommended for variety.
- ❖ A unique cover will be produced .
- ❖ Create a table of contents: Chapter 1 – Organelles, Chapter 2 – Cell Membrane & Cell Wall, Chapter 3 – Cell Processes.
- ❖ When all the cards are ready, punch holes at the end of the cards, and tie them together with yarn.
- ❖ Include the following in the Organelle Chapter: Nucleus, Mitochondria, Golgi Apparatus, Rough Endoplasmic Reticulum, Centrioles, , Chloroplast – On the back of each card briefly describe the function of the organelle.
- ❖ Include both the Cell Membrane and Cell Wall in Chapter 2. Pay special attention to the channels that allow materials into and out of the cell.
- ❖ Include the following processes in Chapter 3: Diffusion, Osmosis, Active Transport, Facilitated Diffusion.
- ❖ A title card should introduce each chapter.

Cell Booklet Card Order

Order to Create Your Cards	Order to Put Your Cards In
Title card for Booklet – Include Your name & Period	Title card for Booklet – Include Your name & Period
Title Card for the Chapter 1 on Organelles	Card for Table of Contents
Card for Nucleus	Title Card for the Chapter 1 on Organelles
Card for Mitochondria	Card for Nucleus
Card for Golgi Apparatus	Card for Mitochondria
Card for Rough Endoplasmic Reticulum	Card for Golgi Apparatus
Card for Centrioles	Card for Rough Endoplasmic Reticulum
Card for Chloroplasts	Card for Centrioles
Title Card for Chapter 2 on Cell Wall & Membrane	Card for Chloroplasts
Card for Cell Wall	Title Card for Chapter 2 on Cell Wall & Membrane
Card for Cell Membrane	Card for Cell Wall
Title Card for Chapter 3 on Cell Processes	Card for Cell Membrane
Card for Diffusion	Title Card for Chapter 3 on Cell Processes
Card for Osmosis	Card for Diffusion
Card for Active Transport	Card for Osmosis
Card for Facilitated Diffusion	Card for Active Transport
Card for Table of Contents	Card for Facilitated Diffusion