**MITOSIS FLIPBOOK ACTIVITY**

**Introduction:**

Mitosis is a process of cell division which results in the production of two daughter cells from a single parent cell. The daughter cells are identical to one another and to the original parent cell.

**Objective:** Students will create a flip book illustrating the changes to a cell during mitosis.

**Materials:**

* 3 - 4 sheets of typing paper
* Crayons or colored pencils
* Stapler
* Scissors
* Chromosome Pictures Sheet

**Procedure:**

1. Staring with a single sheet of typing paper, fold the paper into 8 equal sections
2. Cut the sections apart making sure each section is the same size.
3. Repeat steps 1 & 2 with the other 2 sheets of typing paper.
4. You will need to cut one additional sheet to make a cover sheet for your flip book.
5. Cut out each numbered chromosome picture sheet and glue them, in order, into your flipbook.
6. Use colored pencils or crayons to color chromosomes, centromeres, etc. BE SURE TO USE THE COLOR KEY (THE SAME COLOR FOR EACH CELL PART ON EACH PAGE).
7. Once all the pages have been coloured and glued, place them in the correct order with your cover sheet on top.
8. Place a cover sheet on top with ---- Mitosis Flip Book by “your name & period”.
9. Staple your booklet down the left side so you can “flip” pages and see mitosis animated.

**Legend:**

Cell Membrane –

Nuclear membrane –

Cytoplasm –

Nucleolus –

Chromosomes –

Centrioles –

Spindle fibers –

Cell plate -

**Results:**

Fill in the following table by entering the frame number range that corresponds to each of the phases of mitosis. Include a list of structures that can be seen in cells at each phase. If a structure can only be observed in a plant or animal cell, indicate so.

|  |  |  |
| --- | --- | --- |
| STAGES | FRAME NUMBERS (RANGE) | STRUCTURES THAT CAN BE SEEN IN CELLS |
| INTERPHASE |  |  |
| PROPHASE |  |  |
| METAPHASE |  |  |
| ANAPHASE |  |  |
| TELOPHASE |  |  |