

Name: _____

Mitosis and Meiosis Review Sheet

The **Cell Cycle** represents all events that take place in the period of time from the beginning of one cell division to the beginning of the next. The Cell Cycle includes two periods:

- **Interphase:** Cells increase in size and grow. Chromosomes are replicated. Cells produce of many organelles and molecules.
- **Cell division:** during which a parent cell divides into daughter cells

There are two different types of cell divisions: **Mitosis** or mitotic cell division, and **meiosis** or meiotic cell division.

Mitosis Phases and Events Description

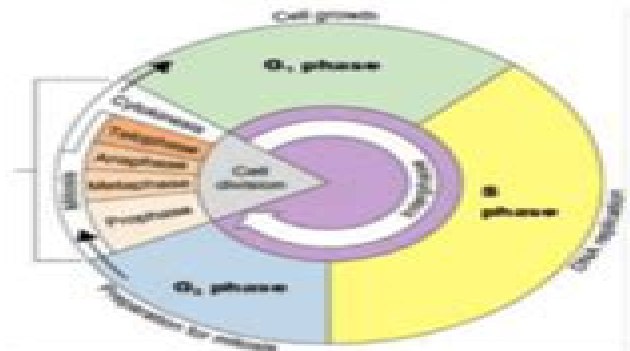
Prophase: The nuclear membrane dissolves. Wind DNA (chromatin) into chromosomes. Appearance of spindle fibers and centrioles.

Metaphase: Chromosomes line up in the middle of the nucleus. Spindle fibers attach to each chromosome at the centromere.

Anaphase: Spindle fibers pull one-half of each chromosome (chromatid) apart at the centromere to the opposite end of the cell.

Telophase: Nuclear membrane forms. DNA unwinds into chromatin. Spindle fibers and centrioles disappear.

Cytokinesis: Cell splits with its own set of chromosomes into 2 daughter cells that are identical to the parent cell.



Meiosis Phases and Events Description

Prophase I: Homologous pairs of chromosomes are tangled together by a process called **CROSSING OVER**. The homologous chromosomes will exchange some DNA. Spindle fibers and centrioles appear.

Metaphase I: The homologous pairs of chromosomes line up next to each other along the equatorial plate.

Anaphase I: Spindle fibers pull the sister chromatids apart at the centromere.

Telophase I and Cytokinesis: Nuclear membrane forms and two new daughter cells form.

Prophase II: Spindle fibers forms in each of the two new cells and the fibers attach to the chromosomes of the two new daughter cells.

Metaphase II: the chromosomes are pulled to the center of the cell and line up randomly at the equator

Anaphase II: the centromere of each chromosome splits. The sister chromatids separate and move to opposite poles

Telophase II: Nuclear membrane re-forms. The spindle fibers and centrioles disappear.

Cytokinesis II: Formation of four daughter cells. Each daughter cell has half the number of chromosomes of the parent cell

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