

Mitosis Notes

Name: _____

Date: _____ Period: _____

1. What happens to the cells in our bodies when they get old?

Our bodies make _____ all the time.

These new cells _____ cells that have _____ and help us to _____.

2. What is the cell cycle?

Cells have a _____ cycle called the _____.

Cells undergo a cell cycle for two reasons:

1. To _____ old and damaged cells
2. For _____ and development.

3. The Cell Cycle

There are _____ main stages of the cell cycle:

1. _____
2. _____
3. _____

4. Review – The Nucleus

It is the _____ inside the nucleus that tells the cell what to do.

The DNA has the _____ that tells the cell what to do.

5. Review – Chromosomes

The DNA inside the cell is organized into _____.

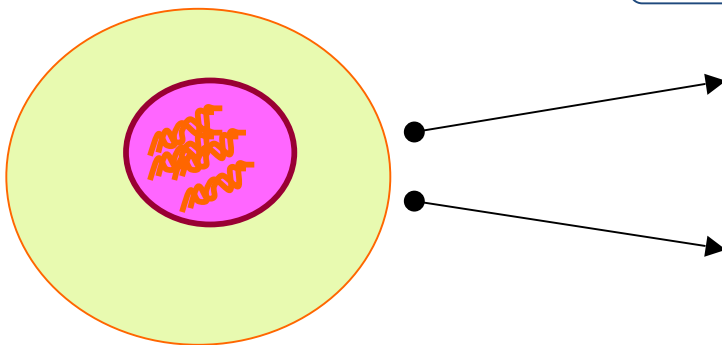
Since the DNA contains all the important information, it is very important that _____.

6. What is Mitosis?

Mitosis is _____.

In mitosis, _____ new daughter cells are made that are _____ to the original cell.

Draw the daughter cells below



7. Interphase

The Phase of a cell cycle when a cell is _____ to reproduce is called _____.

During Interphase:

- _____
- _____
- _____

8. The Stages of Mitosis

There are _____ stages of Mitosis.

1. _____
2. _____
3. _____
4. _____

9. Phase 1: Prophase

During Prophase, the _____ becomes tightly coiled into chromosomes and the nuclear membrane around it _____.

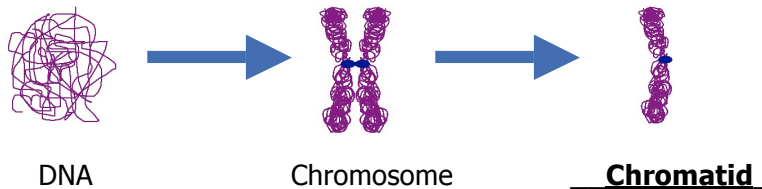


10. Phase 2: Metaphase

The _____ line up at the center (_____) of the cell.

11. Phase 3: Anaphase

In the _____ phase of mitosis the chromosomes begin to separate.



12. Phase 4: Telophase

A new nuclear membrane _____ around the _____ new sets of chromosomes.

The cell membrane starts to _____.

At this point, Mitosis is OVER!

13. Cytokinesis

The final phase of mitosis is when the _____ _____ pinches all the way and the _____ divides to form two identical _____ cells.