Assignment: 1

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour:\_\_\_\_\_\_

**Mitosis Notes**

**Vocabulary:**

**Why do we do mitosis?**

* Cells are continually \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so \_\_\_\_\_ ones must continually be formed
* To \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ cells
* For \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to continue \_\_\_\_\_\_\_\_\_\_

**Interphase**

* G1 (Growth 1) – Everything in the cell \_\_\_\_\_\_\_\_\_\_\_ for the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* S (Synthesis) – Each of the 46 chromosomes are \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (copied)
* G2 (Growth 2) – Cell \_\_\_\_\_\_\_\_\_ to make sure everything is ready

***Mitosis Begins : Mitosis is the process of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_ separate complete nuclei***

**Prophase**

* \_\_\_\_\_\_ and proteins \_\_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ breaks down
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ form

**Metaphase**

* Chromosomes line up in the \_\_\_\_\_\_\_\_\_\_\_
* Spindle fibers grow from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to connect to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Anaphase**

* \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separate from their copies (chromosomes \_\_\_\_\_\_\_\_\_\_ in half)
* Pulled towards \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

**Telophase**

* Each new cell has a \_\_\_\_\_\_\_\_\_ set of \_\_\_\_\_\_\_\_\_\_\_\_
* Nuclear envelope \_\_\_\_\_\_\_\_\_\_\_

***Mitosis is over.. now we need to finish separating the \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_***

**Cytokinesis**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in half to form \_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_
* Two celled formed are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Animal cells – called \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as they pinch apart
* Plant cells - \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, they build a “wall” in the middle in order to split

apart

**Practice Slide:**