***Biology I***

***Phases of Mitosis Virtual Investigation - INSTRUCTIONS***

Go to the following website: **http://learning.kentwoodps.org/science/holt/biology\_vi/**

Click “Genetics”. Then click the “**Phases of Mitosis”**.





Now you are ready to work through a Virtual Investigation. Answer the following questions as you proceed.

**Remember, for full credit you must use complete sentences!**

**Biology I** Name:

***Phases of Mitosis*** Name:

***Virtual Investigation*** Hour:

Navigate through the virtual investigation titled “Phases of Mitosis” on the website. Answer these questions as you proceed. This should serve as a refresher on the scientific method. Remember, for full credit you must use complete sentences.

**Part 1 of 5**

Use the box below to take notes on what happens during Interphase.

**Part 2 of 5**

Draw the cell at the beginning and at the end of Prophase. Label the chromosomes.

Beginning End

**Part 2 of 5**

Draw the cell as it appears at the end of Metaphse. Label the chromosomes.

**Part 3 of 5**

Draw what the cell looks like ***during*** anaphase. Label the sister chromatids (chromosomes).

In your own words: Describe what happens during this phase.

**Part 3 of 5**

Draw what the cell looks like during this phase. Label the two new nuclei.

**Part 4 of 5**

Draw what the cell looks like when cytokinesis starts and ends. Label the two daughter cells.

Beginning End

**Part 4 of 5**

Fill in the table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Prophase | Metaphase | Anaphase | Telophase |
| Nuclear Membrane |  |  |  |  |
| Centrosomes |  |  |  |  |
| Spindle  |  |  |  |  |
| Form of Chromosomes |  |  |  |  |
| Chromosome Composition  |  |  |  |  |