

Mr. Hanson's Mitosis and DNA Science Project

Name: _____

This assignment will be completed in class. You will need colored pencils. Mitosis is the process in which the nucleus of the cell divides into two new identical cells. Staple this in your Science Journal. You will need to complete the following:

1. Draw and illustrate Interphase, then the four phases of Mitosis: Prophase, Metaphase, Anaphase, and Telophase, and Cytokinesis. (30 points)
2. Label all the parts of the cell that are involved in cell division – the structures. Focus in on the Chromosomes. (20 points)
3. Describe what happens in detail during each phase, what the structures and chromosomes are doing, etc. (30 points)
4. On the back of the poster, draw, illustrate, and label the DNA double helix. Then draw the structure of the four base pairs and label them, (Adenine, Thymine, Cytosine, and Guanine (ACTG)) etc. Write Facts: What is DNA? What is DNA made of? How are DNA sequences used to make Proteins? What is the DNA Double Helix? Where is DNA found? What does DNA do? Who discovered DNA? How important it is to every organism? (20 points)

Good idea to start from the left of your poster and work to the right. Insure that your illustrations are the right size as to label the parts and write your descriptions below each phase.

Assignment is worth 100 points. Must be completed in 4 class periods. You may work in partner teams when using a laptop to complete this project. Each student needs to complete their own project. Laptops are available and use key word searches. An excellent website is: <http://www.cellsalive.com/>

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