**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mitosis iPad Quest**

**Task**

Go to [www.mrlepage.weebly.com](http://www.mrlepage.weebly.com) to find the two websites listed to learn about mitosis. Complete the questions that go with both site. Through these activities, you will learn what happens in cell division.

**PART A: Cell Growth and Mitosis**

Click on **PART A** from Weebly—be sure to summarize and put answers into your own words if possible.

1. What is the role of the cell membrane in cell division?

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2. What is the role of the nucleus in cell division?

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3. What is the role of the centrioles in cell division?

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4. What is the role of the microtubules in cell division?

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**Click on the tab, “Why Must Cells Divide?”**

5. Why are cells limited in size?

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6. What does S/V mean?

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7. A cell with a large volume will have a more difficult time doing what?

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**Click on the tab, “What does Mitosis Do?”**

8. What are the 2 major functions of mitosis?

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**Click on the tab, “Built-in Controls in Mitosis”**

9. What are the 2 ways that cells “know” to stop dividing?

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 **Part B : Cell Cycle Visit the “Cell Cycle and Mitosis Tutorial” website at**

Go the **PART B** Website and click on Mitosis. See pictures and read through descriptions.

1. List the 6 stages of mitosis (Please ignore PROMETAPHASE)

2. Which stage does the following occur

Chromatin condenses into chromosomes

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Chromosomes align in center of cell.

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Longest part of the cell cycle.

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Nuclear envelope breaks down.

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Cell is cleaved into two new daughter cells.

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Daughter chromosomes arrive at the poles.

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3. Write down your acronym for Mitosis.