

**Cell Cycle Observation** Name: \_\_\_\_\_

1. In a given field of view, count the number of cells at each of the five stages of the cell cycle. Record in the table below.

Stage of the Cell Cycle	Number of Cells	Percentage of Total Cells
Interphase		
Prophase		
Metaphase		
Anaphase		
Telophase		
<b>Total Number of Cells</b>		

2. Based on the results in the table above, which stage of the cell cycle does a cell spend the most time?

Why is this important?

3. Based on the results in the table above, which stage of mitosis does a cell spend the most time?

4. Are there cells present in which the chromosomes are not condensed? If so, what stage is this and what is the name for this form of genetic material?

5. Why is interphase not considered part of mitosis?

6. Does each chromosome contain the same genetic material? Explain.

**Cell Cycle Stage Observation** Name: \_\_\_\_\_

1. In a given field of view, count the number of cells at each of the five stages of the cell cycle. Record in the table below.

Stage of the Cell Cycle	Number of Cells	Percentage of Total Cells
Interphase		
Prophase		
Metaphase		
Anaphase		
Telophase		
<b>Total Number of Cells</b>		

2. Based on the results in the table above, which stage of the cell cycle does a cell spend the most time?

Why is this important?

3. Based on the results in the table above, which stage of mitosis does a cell spend the most time?

4. Are there cells present in which the chromosomes are not condensed? If so, what stage is this and what is the name for this form of genetic material?

5. Why is interphase not considered part of mitosis?

6. Does each chromosome contain the same genetic material? Explain.