The Cell Cycle

1. What is the cell cycle?

2. The cell cycle is divided into two parts. What are they?

3. What is interphase?

4. What are the three phases of interphase. What is the purpose of each one?

5. What is M phase or cell division?

6. What are the two parts of M phase? What is the purpose of each one?

7. During which part of M phase does the nuclear material divide into two equal parts with identical DNA?

8. During which part of M phase does the cytoplasm of the cell finally divide forming two new cells identical to each other as well as to the original cell?

9. Explain why cell size is limited forcing a cell to divide?

10. Create a shutter foldable on facing notes pages in your lab notebook. Create a flap on which you draw the cell cycle graph (wheel) by copying the model in the PH textbook or use the powerpoint at my website. Be sure to include the final part of M phase as seen on page 245 in PH Biology. Page number in lab notebook\_\_\_\_\_\_\_\_\_\_.

11. There are four phases to mitosis. Draw each on a flap on your foldable. Inside the flap, describe what occurs in your own words. Be sure you note the ultimate goal of each phase. Page number(s) in your lab notebook\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

12. Create a final flap for cytokinesis. Inside the flap, describe what occurs in your own words. Be sure you note the ultimate goal of this phase. Page number in your lab notebook\_\_\_\_\_\_\_\_.