## **The Cell Cycle and Mitosis Webquest**

□ Cornell Whitefish Mitosis

require information from two or more of the websites to answer fully.

		is reading ation 1 ation 2	<u>is</u>
1.	What is the purpose	of mitosis?	
2.	Complete this table	in which you illustrate and	describe the events in each of the phases of the cell cycle.
	Name of Phase	Illustration	Description
	Interphase – G1		•
	Interphase – S		
	Interphase – G2		
	Prophase		

Synthesize information from the following websites to answer the questions below. Some questions will

	Metaphase		
	Anaphase		
	7		
	Telophase		
	Cytokinesis		
3.	What is a centriole? \	What does it do? Which	cells (plants or animals) have them?
4.	What is the equatorial	l plate?	

6.	List some of the features necessary for regulation of the cell cycle, and in which errors can lead to cancer.
7.	Define chromosome, chromatin, and gene.
8.	Draw pictures to illustrate chromatin, chromatid, unreplicated chromosome and a replicated chromosome.
9.	Indicate when during the cell cycle each is present in the cell.
10.	What are kinetochores and kinetochore microtubules?