Name	
	Ms. Simon
	CP Biology

Mitosis Web Quest

In this web quest, you will review the steps of mitosis and view video simulations of cell division. You will also view an onion root tip and calculate the percentage of cells at each of the stages of cell division. Go to http://www.cellsalive.com/. On the left side of the screen is a navigation bar, click on the link to "MITOSIS." Read the text on this page and view the animation – you can slow down the video by clicking step by step through the phases.

1.	In which stage does the following occur: Chromatin condenses into chromosomes
	Chromosomes align in the center of the cell
	Longest part of the cell cycle
	Nuclear envelope breaks down
	Cell is cleaved into two new daughter cells
	Daughter chromosomes arrive at the poles
	Chromatids are pulled apart
2.	Watch the video carefully! The colored chromosomes represent chromatids. There are two of each color because one is an exact duplicate of the other. How many chromosomes are visible at the beginning of mitosis?
	How many are in each daughter cell at the end of mitosis?
	The little green T shaped things on the cells are
	What happens to the centrioles during mitosis?
۷. ۲	There are two of each color because one is an exact duplicate of the other. How many chromosomes are visible at the beginning of mitosis? How many are in each daughter cell at the end of mitosis? The little green T shaped things on the cells are

3. Identify the stages of these cells:

4. Go to	www.j	<u>johnk</u> y	<u>yrk.com</u> ,	<u>/mitosis</u>	<u>.html</u> .	Draw	a cell in	each o	of the f	ollowing
phases:										

<u>Prophase</u>	<u>Metaphase</u>	<u>Telophase</u>

5. Go to

http://www.biology.arizona.edu/cell bio/activities/cell cycle/cell cycle.html . Read the introduction, then click the "next" button. You will have 36 cells to classify. When you're finished record your data in the chart below. Round to whole numbers. (To calculate percent: divide the number of cells by the total cells x 100)

	Interphase	Prophase	Metaphase	Anaphase	Telophase	Total
# of Cells						
% of Cells						

6. Go to http://www.biologycorner.com/flash/mitosis.html . For each organism, identify the stage of mitosis.

	View 1	View 2	View 3	View 4	View 5
Whitefish					X
Onion					