

Name _____ Period _____ Date _____

Mitosis Computer Lab

Go to the class website, then the Biology page, and then click on Mitosis Computer Lab.

Go to each of the following websites and answer the questions.

YOU WILL NEED TO HIT THE BACK BUTTON TO RETURN TO MY WEBSITE AND CONTINUE ON TO THE NEXT WEBSITE!

Click on #1 Cell Cycle (http://www.cellsalive.com/cell_cycle.htm)

1) What is G₀, G₁, and G₂? What is the difference between the 3?

2) What is another name for the mitosis phase?

Click on #2 The Cell Cycle (http://www.biology.arizona.edu/cell_bio/cell_bio.html)

Click on The cell cycle and mitosis. (At this point you may choose to do this in Spanish)

Click on The cell cycle and read the page. You will be quizzed in just a moment.

At the bottom of the page Click Next and read that page. Again you will be quizzed in just a moment.

At the bottom of this page again Click Next and then click on Cell Cycle Stages to begin the quiz.

Test Your Self

Letter	Answer
1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____
7.	_____
8.	_____
9.	_____
10.	_____
11.	_____

Great Job!!!!

Now click **End**.

Click on the **Online Onion Root Tips** link.

Read the page on "Determining the time spent in different phases of the cell cycle".

Click **Next**

Read the next page.

Click **Next**

Read the assignment. I have already drawn the chart for you below. You **don't** need to add up the number of cells until you have finished the activity. Then at the end of the activity enter the information. To find the percent divide like this ($\# \text{ of cells} \div 36 = \text{percent}$). Round to the nearest whole number (below 5 round down, 5 or above round up) You can find a calculator on you computer by clicking on the start button, programs, accessories, and then calculator.

	Interphase	Prophase	Metaphase	Anaphase	Telophase	Total
Number of cells						36
Percent of cells						100%

GREAT!!

Next go to **#3** Stages of Mitosis (www.unomaha.edu/~swick/2740mitosis.html)

Read the page and answer the following questions.

3) According to this web page what are two things which have to happen before mitosis is complete?

4) According to this web page, what is the name of the place where the chromosomes meet during metaphase?

Next Click on **#4** Mitosis Animation (www.cellsalive.com/mitosis.html)

Click on play and watch it a couple of times. Watch both the animation and the real film.

5) In your opinion, which animation is cooler, the drawing or the real film?

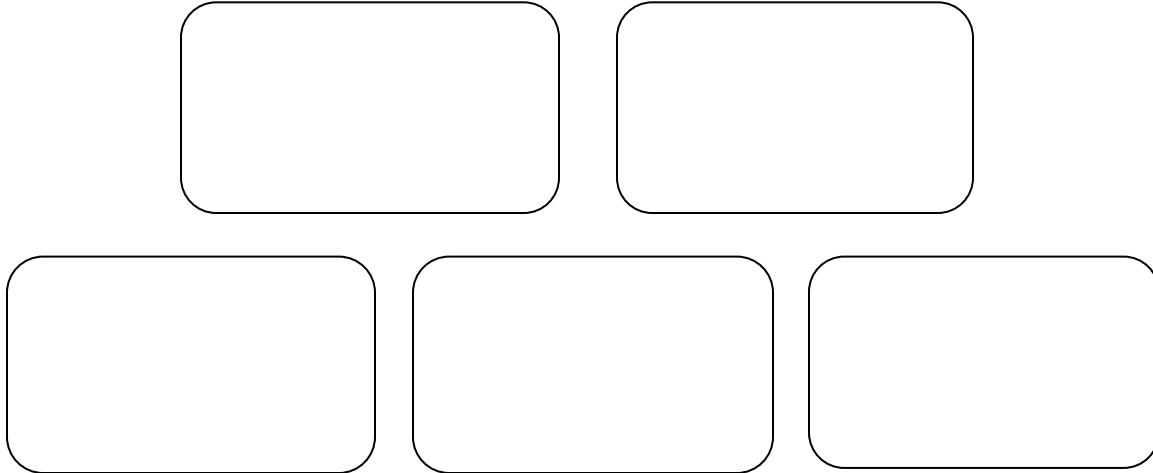
Next go to **#5** Mitosis Lab Notes (<http://www.bioweb.uncc.edu/biol1110/mitosis.htm>)

Read through the Lab notes

6) What is the difference between a diploid and haploid?

Next click on **(Click HERE for a graphical review)**

Draw, color, and label each of the plant mitosis phases below.



The image contains five empty rounded rectangular boxes arranged in two rows: two in the top row and three in the bottom row. These boxes are intended for students to draw and label the stages of plant mitosis.

Next click on **"Click HERE for a review of what each stage looks like"**. Look at the pictures.

7) Describe some differences between plant and animal mitosis.

Next Click on **#6 Mitosis in Plant and Animal Cells** (<http://biology.nebrwesleyan.edu/benham/mitosis/>)(no www, just this) Look at the pictures together and individually.

8) What is the difference between plant and animal cells during telophase?

Next click **#7 Mitosis Quiz** (<http://www.uoguelph.ca/zoology/devobio/210labs/MitosisQuiz/mitosisqframe.html>)

Do the quiz and write the answers below

	Letter	Answer
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____
13.	_____	_____
14.	_____	_____
15.	_____	_____
16.	_____	_____

Next Click on #8 Cool Mitosis Pictures

(<http://www.uoguelph.ca/zoology/devobio/210labs/MitosisQuiz/mitosisqframe.html>)

Click through the states and look at the pictures.

9) According to this page, when does telophase begin?

10) What is telophase the reverse of?

11) Using what you have learned define the following words:

Chromosome

Sister chromatids

Daughter cells

Chromatin

Centromere

Spindle apparatus

Awesome!!! Your finished.

For extra credit points you can write a song, rap, poem, cartoon, or story about mitosis.

