**Biology for Health Sciences**

**Chapter 10 Worksheet Name:**

1. A \_\_\_\_\_\_\_\_ is the basic unit of life.
2. Before cell division can happen, the \_\_\_\_\_\_\_ must replicate.
3. How many chromosomes do prokaryotes (bacteria) have? \_\_\_\_\_\_\_
4. Bacteria divide by a process called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. With Eukaryotes, cell division is more complicated. Why?
6. Mitosis is cell division used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. Meiosis is cell division used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. What is a karyotype?
9. How many chromosomes do humans have? \_\_\_\_\_\_\_
10. Do all species have the same number of chromosomes we have? \_\_\_\_\_\_
11. What is diploid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is our diploid #? \_\_\_\_\_\_\_
12. What is haploid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is our haploid #? \_\_\_\_\_\_\_
13. Label:

 

1. Label:

 

1. Draw the cell cycle.
2. The 2 Main Stages of the Cell Cycle are:
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Interphase is divided into what stages?
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Mitosis is divided into what stages?
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Know what happens at each stage. Be sure to look at pictures of each stage and be able to identify.

For instance, what stage is this?



1. What is cytokinesis?
2. What is G0?
3. Why is it important to have checkpoints with mitosis?
4. What are proto-oncongenes?
5. What are tumor suppressor genes?