Honors Biology Name:

*Mitosis Video (Bozeman)*

What is the difference between diploid and haploid cells?

How many chromosomes does a human somatic (non-sex cell) cell have? What about a sex cell (gamete)

Interphase is composed of three smaller steps. What are they and what happens in each one?

Do all cells copy themselves?

Diagram the cell cycle

Diagram a chromosome, include the following parts: Chromatid, Centromere, Short arm, and Long arm.

Explain the difference between chromatin and a chromosome.

What is mitosis? Why is it important? What is the process called in prokaryotes?

What is the first phase of mitosis? What happens?

What is the second phase of mitosis? What happens?

What is the third phase of mitosis? What happens?

What is the fourth phase of mitosis? What happens?

What happens to the cell after mitosis is complete? What is this process called?

How is the above process different in plants?

Diagram the steps of mitosis:

If a cell divides uncontrollably, what disease do you have?