**May 27th and May 31st Notes Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Prior knowledge needed:** DNA is a set of instructions that are passed from parent to offspring.

Have a look at p. 191 in your text book. In the space below, draw/sketch the phases in Meiosis (use two different colour to do this):

**In your own words define the following:**

Crossing over:

Independent assortment:

Question:

How many pairs of chromosomes does a human cell have?

How many chromosomes does a human cell have?

**Guiding Questions: What are the guiding questions for this lesson?**

1. Where are chromosomes?

2. What kind of traits do you get from your parents? ear lobe attachment, dimples, can you roll your tongue, allergies, hairline, sense of taste?

3. How many cells are really in our bodies? Require the students to give a numerical amount, to prevent the student from saying "lots" or some other vague amount.

4. What happens if just one cell dies in my hand, arm or foot? Do all the cells in my hand or foot die?

5. How do I get new cells when I grow or if I get injured?

6. Now that we have learned about mitosis, anyone know any differences between mitosis and meiosis? (What would happen if our cells reproduced exactly? Why do our cells only have 1/2 the number of chromosomes?)

Now….

Try the lab on p. 201 – get into partners