**Human Genome Chromosome Research  (20 points)**

<https://public.ornl.gov/site/gallery/gallery.cfm?topic=47&restsection=HGPArchive>

Choose a chromosome number/name, or have your teacher assign one to you!

Using the website, include the following info on a poster or plain white paper:

1. Number of bases that make up your chromosome. – Use the graphic from the website to help you draw your chromosome to scale based on the scale. (If you decide to crate your graphic on computer- use the drawing tool to get correct scale. (1 centimeter = 10,000, 000 bases)

Color is a plus!         5 points

2. List 3 diseases/genes you are familiar with- write them in the correct position on the chromosome.    6 points

3. List 1 disease/gene you are NOT familiar with- write it in the correct position on the chromosome.    2 points

4. Choose 1 of the diseases/genes you have on your chromosome and conduct research:

**Research should be typed on a separate paper,** not handwritten, not on the “poster.”

-How does the disease/gene affect the person?

-What are signs/symptoms of the disease/gene?

-How prevalent is the disease/gene? (How often does it occur in the population?

-Does affect one group of humans more than another?

-List any treatments/prognosis for the disease/gene.

-List one interesting fact to share about this disease/gene.  6 points

5. Title your drawing with the chromosome number/name.  1 point