Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_

Using the poster in the class or pages 151-153 in your books answer the following questions.

1. What is DNA?

How long is DNA?

1. Define Chromosome
2. What are histones and what do they maintain?
3. What is a chromatid?
4. Draw figure 8-2 and label
5. What is the centromere?
6. What is chromatin?
7. Describe the DNA in a prokaryote cell.
8. Describe how the number of chromosomes differs between species.
9. How many chromosomes does a garden pea have? Dog?
10. What are sex chromosomes?
11. What are the sex chromosomes in humans?
12. What are autosomes?
13. How many autosomes are in humans?
14. What are homologous chromosomes?
15. How does each organism get homologous chromosomes?
16. How are homologous chromosomes similar?
17. What is a karyotype?
18. What are diploid cells?
19. What types of cells are diploid?
20. What is haploid?
21. What types of cells are haploid?
22. What happens when an egg and sperm combine?