Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Answer the following questions:**

1. Use the term DNA in a sentence.

DNA is a molecule that is responsible for my inherited traits.

1. Create your OWN analogy for DNA. Explain your reasoning.

DNA is like the cell’s directory: it contains the all of the information that the cell needs to survive. It is stationary; things go to it for information.

1. In your OWN words, write a definition for the following terms: (Actual definitions)

Chromosomes-

Chromosomes are condensed threads of genetic material formed from chromatin as a cell prepares to divide.

Genes

Genes are the unit of inherited information in DNA.

Nucleotide-  
Nucleotides are the building blocks (monomer) of nucleic acids.

Nucleic acid-

Single or double ring of carbon and nitrogen atoms with attached functional groups. Nitrogenous bases include: adenine, thymine, cytosine, and guanine.

Purine-

Double-ring nitrogenous base; adenine and guanine

Pyrimidine-

Single-ring nitrogenous base; cytosine and thymine

**Fill in the following concept map: Only one word per bubble.**

Genetic information nucleotide bases chromosomes proteins

DNA purines ribosome

are composed of of

which are assembled within

which carries

in the order of its