Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I CAN describe the basic structure of the DNA molecule.

Period \_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DNA Unit

**Review and Directed Reading Chapter 6 Section 1a**

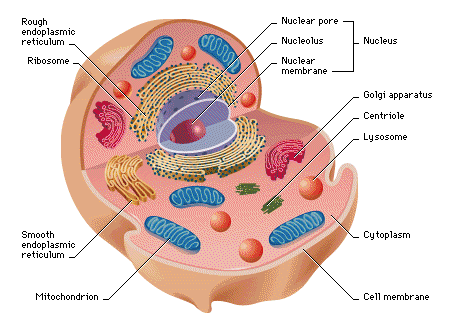
**pages 128 and 130 “What Do Genes Look Like?”**

**REVIEW**

1. DNA is found in the ***\_\_\_\_\_\_\_\_\_\_\_.*** (part of cell)

4.\_\_\_\_\_

**Label the parts of the cell below:**



Choose from these words to label:

mitochondria

cell membrane

endoplasmic reticulum

cytoplasm

ribosome

nucleus

2. 6.

3.

the black dots

5.

6.

7.

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_are linear structures made of \_\_\_\_\_\_\_\_\_\_\_\_and proteins.

**Directed Reading Chapter 6 Section 1a pages 128 and 130**

***Section 1: What Do Genes Look Like? (p. 128)***

1. Where are the chromosomes found in most cells?

a. the nucleus b. the DNA

c. the genes d. the ribosomes

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_make up chromosomes.

***The Pieces of the Puzzle (p. 128)***

3. What two functions do genes give instructions for?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Which of the following make up a nucleotide? (Circle ALL that apply)

a. a sugar b. a phosphate

c. a protein d. a base

5. Except for the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, all DNA nucleotides are identical.

6. Look at Figure 1. How do you think the nucleotides fit together in pairs?

\_\_\_\_\_ and \_\_\_\_\_ \_\_\_\_\_ and \_\_\_\_\_

**\*\*\*You do not need to read p. 129!!!\*\*\***

**DNA Structure (p. 130)**

7. What part of the twisted ladder, or double helix, of DNA is made up of the nucleotide bases?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. The side rails of the twisted ladder, or double helix, is made up of what?

alternating\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ molecules

9. Look at Figure 5. What do you think happens if the bases in the DNA molecule do not pair up

correctly? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_