Name:	Date:

Cells and Genetic Information

1. Fill in the blanks:

G pairs with _C____ T pairs with _A_

- 2. The following is a portion of a DNA strand: CCG ATT TGC ACG. The complimentary (matching) DNA strand would be:
 - a) CCG ATT TGC ACG

b) GGC TAA ACG TGC

c) GGC UAA UCG UGC

d) CCG TAU UCG UGC

- 3. DNA is made up of ______ types of nucleotides (nitrogen bases)
 - a) 1

b) 2

c) 3

d) 4

- 4. What is the basic structural unit of life? cell
- 5. What information can we get by looking at the chromosomes found in the nucleus of a cell? (Give at least one)

Information about our genetic code, DNA, genes, heredity (eye color, hair color)

- 6. How many chromosomes are there in a human egg or sperm cell (haploid cells)?
 - 23 chromosomes
- 7. How many chromosomes are there in a human diploid cell, like skin and organ tissue? **46 chromosomes/23 pairs**
- 8. What is the name of the segments in DNA that code for specific characteristics, like eye color? **genes**
- 9. What is special about the 23rd chromosomes in humans?

Determines sex (xx female/xy male)

10. What is the picture of the arrangement of chromosomes by size and number called?

