

DNA: The genetic Material
Assignment
Total : /16

Read pages 176-178 and answer the following questions. Your answers can be placed on this sheet. Once you are complete pass this sheet in for grading.

1. Give the number of chromosomes in each of the following: (1.5)
 - a. Humans
 - b. Dog
 - c. Mouse

2. What does the abbreviation DNA stand for? (1)

3. What does DNA provide to the cell? Name two things DNA does for our cells. (2)

4. (3.5)
 - a. How many letters are in the DNA code
 - b. What does each letter stand for?
 - c. What letters pair with each other during replication?

5. Briefly describe what happens during DNA replication? Why is it important for this to occur? (3)

6. There are only 4 different nitrogen bases found in DNA, so why are organisms so different? (1)

7.
 - a. Briefly describe the steps taken to carry out DNA fingerprinting (2)

 - b. What can DNA fingerprinting be used for? Give at least two uses. (2)