

NAME: _____ DATE: _____ CLASS: _____

DNA AND RNA REVIEW WORKSHEET

1) _____, guanine (G), cytosine (C), and thymine (T) are the four _____ in DNA.

2) In DNA, _____ always forms hydrogen bonds with guanine (G).

3) The sequence of _____ carries the genetic information of an organism.

4) The double-coiled shape of DNA is called a _____.

5) Complete the chart on the three chemical differences between DNA and RNA:

Structure	DNA	RNA
1. Strand of nucleotides	a. _____	b. _____
2. Sugar	a. _____	b. _____
3. Nitrogenous base	a. _____	b. _____

6) What are the three components of a DNA nucleotide?

1. _____
2. _____
3. _____

7) What are the three components of an RNA nucleotide?

1. _____
2. _____
3. _____

- 8) How does base pairing differ in RNA and DNA?
- 9) If a sequence of bases on a DNA strand is AAC TAG GGT ATC TAC, what is the sequence of bases on the complementary strand?
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- 10) Which series is arranged in order from largest to smallest in size?
- a. Chromosome, nucleus, cell, DNA, nucleotide
 - b. Cell, nucleus, chromosome, DNA, nucleotide
 - c. Nucleotide, chromosome, cell, DNA, nucleus
 - d. Cell, nucleotide, nucleus, DNA, chromosome