

Draw a nucleotide here:

Name : \_\_\_\_\_

per: \_\_\_\_\_

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.

*In your textbook, read about the genetic code.*

Complete each statement.

4. Proteins are made up of \_\_\_\_\_.
5. There are twenty different types of \_\_\_\_\_.
6. The message of the DNA code is information for building \_\_\_\_\_.
7. Each set of three nitrogenous bases that codes for an amino acid is known as a \_\_\_\_\_.
8. The amino acid \_\_\_\_\_ is represented by the mRNA codon ACA.
9. \_\_\_\_\_ and \_\_\_\_\_ are mRNA codons for phenylalanine.
10. There can be more than one \_\_\_\_\_ for the same amino acid.
11. For any one codon, there can be only one \_\_\_\_\_.
12. The genetic code is said to be universal because a codon represents the same \_\_\_\_\_ in almost all organisms.
13. \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ are stop codons.
14. \_\_\_\_\_ and \_\_\_\_\_ are amino acids that are each represented by only one codon.