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

Complete the chart on the three chemical difference between DNA and RNA

|  |  |  |
| --- | --- | --- |
| Structure | DNA | RNA |
| 1. Strand of nucleotides |  |  |
| 2. Sugar |  |  |
| 3. Nitrogen bases |  |  |

4. Proteins are made up of \_\_\_\_\_.

5. There are 20 different types of \_\_\_\_\_.

6. The message of the DNA code is information for building \_\_\_\_\_.

7. Each set of three nitrogen 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 aicd.

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.

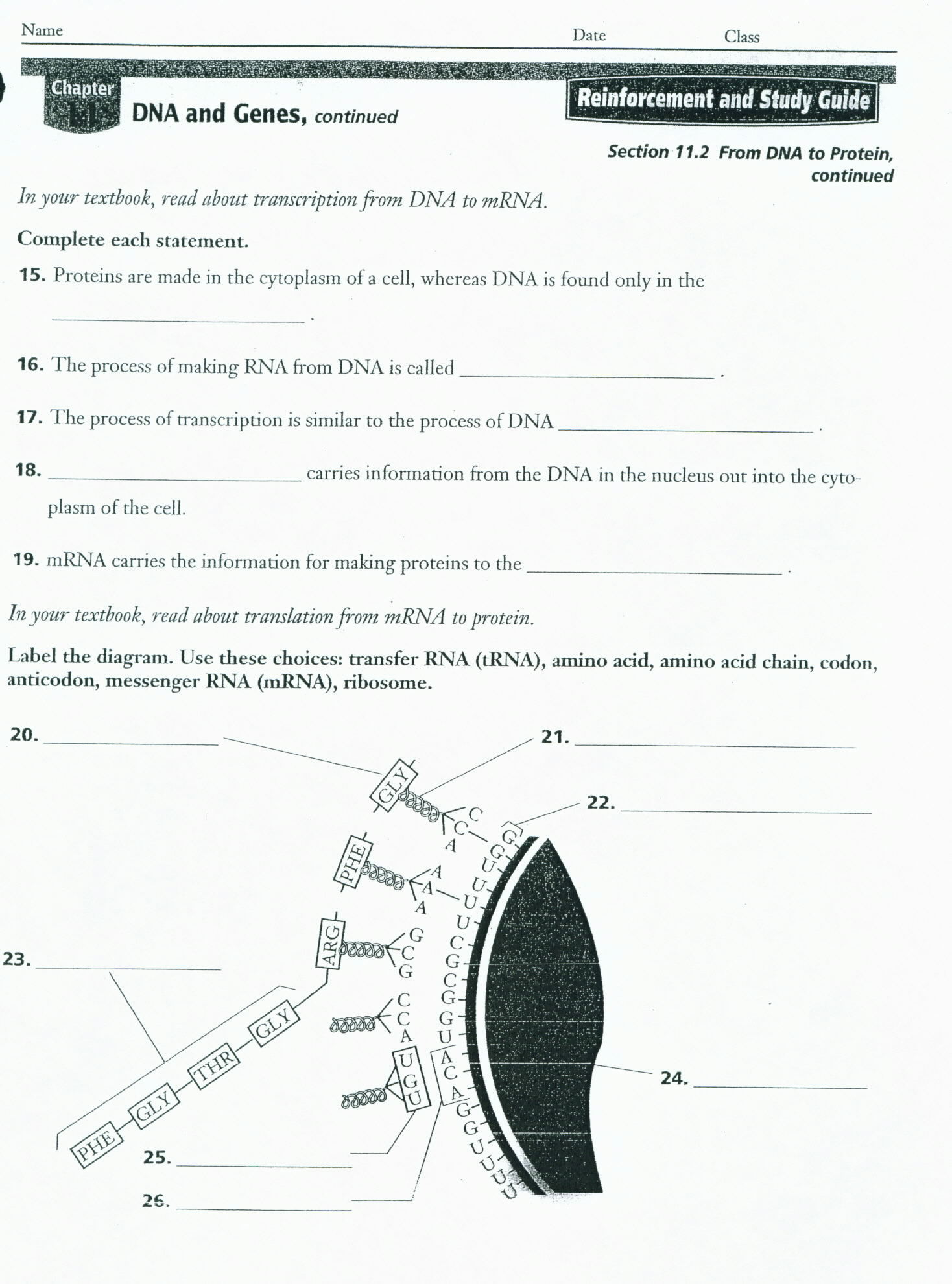
15. Proteins are made in the cytoplasm of a cell, whereas DNA is found only in the \_\_\_\_\_.

16. The process of making RNA from DNA is called \_\_\_\_\_.

17. The process of transcription is similar to the process of DNA \_\_\_\_\_.

18. \_\_\_\_\_ carries infromation from the DNA in the nucleus out into the cytoplasm of the cell.

19. mRNA carries the information for making proteins to the \_\_\_\_\_.



20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

26. \_\_\_\_\_

