

Have Your DNA & Eat It Too! Questions

1. Write down the sequence you chose to make your model of. _____
(This is one of your strands of DNA).
2. From your 1st strand, write down the sequence that would be on your 2nd strand of DNA. This strand corresponds with the other one. _____
3. What does the licorice represent in your model? _____
4. What parts of DNA does the licorice contain? _____
5. What do the toothpicks represent? _____
6. What do the marshmallows represent? _____

Reading DNA Questions

1. Write down the sequence of one of your DNA strands being used. _____
2. Using that DNA strand, what would be the sequence of the complementary RNA strand?

3. As you use a DNA strand to make an RNA strand, what is this process called? _____
4. What happens during the process answered ^{above} ~~in #1~~? _____
5. As you cut through the toothpicks, you are unzipping your DNA. From your notes, what enzyme is needed to unzip DNA? _____
6. What does mRNA stand for? _____
7. What does mRNA do? _____
8. Instead of thymine (T) in RNA, what base is paired with adenine (A)? _____
9. What are proteins built from? _____
10. What happens during translation? _____
11. mRNA is read in groups of what number of bases? _____
12. What is each group referred to as? _____

13. What does each group of bases code for? _____
14. How many amino acids are there? _____
15. From the 4 bases of RNA, there are 64 possible combinations of bases. If there are 64 combinations, why are there only 20 amino acids?
16. Write down the sequence of you mRNA you and your partner created after placing them end-to-end.
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17. From the sequence you wrote above, find the name of each amino acid coded in your sequence. Remember that the amino acids are read in groups of 3 bases. Divide you sequence into 3 letter groups and write the name of the amino acid below your sequence above. The chart needed to name the amino acids is provided for you in your packet on pg S-5 of Reading DNA. *or your textbook.*