# Chapter 12 Quiz Review

1. What 3 things make up a nucleotide in DNA?
2. Adenine pairs with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Guanine pairs with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. What bases are considered pyrimidines? What bases are considered purines?
4. Name the process of when DNA is copied.
5. When DNA has been replicated it results in 2 new DNA molecules. What are the strands like?
6. What is the compliment to this templete DNA strand? GATCCA
7. Where is DNA located in a eukaryotic cell?
8. RNA contains a base that DNA does not. What is it called?
9. What are the 3 main types of RNA that are involved in protein synthesis and are copied from DNA?
10. Transcription will produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Translation will then make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. How many codons are needed to specify 1 amino acids? 2 amino acids? 3 amino acids?
12. Genes contain instructions to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. What are a point mutation and a substation mutation?
14. What are the parts of the DNA model below?
15. Using the genetic code wheel below, what codon(s) specify the amino acid Glutamic acid?
16. Using the diagram below, Label parts A, B, C, D, E, F, X and Y.