1. Who was Fredrick Griffith? What did he do? What did he discover?

**Review Packet: DNA Test**

1. Draw a basic nucleotide. Label all three parts.
2. Describe the structure of DNA.
3. How do nucleotides fit together?
4. What are the different nitrogen bases in DNA? How do they pair together? What are the different nitrogen bases in RNA? How do they pair together?
5. What is DNA replication?
6. What does it mean to make complementary strands?
7. What enzymes are used during DNA replication?
8. Give a brief description of the process of DNA replication from start to finish.
9. Define protein synthesis.
10. Define transcription.
11. Define translation.
12. Protein synthesis starts as DNA and ends as protein. Define all of the different stages that the information will become. (ex: DNA, AA, mRNA, etc)
13. What enzymes are used during transcription?
14. Give a brief description of the process of transcription from start to finish.
15. Give a brief description of the process of translation from start to finish.
16. Define mutation.
17. What is a substitution (point) mutation? Give an example.
18. What is a frame shift mutation?
19. How does a mutation affect a protein?
20. What is a virus?
21. Describe all of the components to a virus.
22. What are the two ways a virus could infect a cell?
23. What are three ways that a bacteria increases its genetic variability?