DNA Webquest #1

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # \_\_\_\_\_\_\_\_\_

Visit the websites below and answer the questions that follow. Be sure to answer all questions.

Website: <https://learn.genetics.utah.edu/content/basics/dna>

**Basics of DNA**

1. What do these instructions look like?

2. What does DNA stand for?

3. How can a molecule hold information?

4. What are the base pairing rules of DNA?

5. What is the analogy for genes in the website? What do they do?

6. What type of cell is used in the illustration?

Website: <http://www.dnai.org/lesson/go/16361/13158>

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7. How are the two DNA strands arranged? What is it called?

8. What happens to the strands during replication?

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9. What happens to the strands at the end of replication?

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10. Who is being interviewed in the animation?

11. What questions was he trying to answer about DNA replication? What different models were proposed before the experiment?

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12. What were the three proposed models of DNA replication?

13. Illustrate the semi-conservative model of DNA replication (draw)

14. How does the conservative model differ from the semi-conservative model?

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15. What is the “whirling blue molecular machine” called? What does it do?

16. How does the actual copying of the two DNA strands differ?

17. Describe what the animation looks like.