

WORKSHEET FOR DNA REPLICATION ANIMATION

FOLLOW THE ANIMATION AND ANSWER THE QUESTIONS BELOW:

1. What is DNA replication?
2. What is the first step in DNA replication?
3. Each new DNA molecule contains:
 - a. One has two old strands and the other has two new strands
 - b. Both has pieces of new and old DNA in both chains
 - c. Both chains have one old chain and one new chain each
4. What is meant by semi conservative replication?
5. Do review question 1 in animation
6. List the seven proteins involved in DNA replication and describe their functions
7. Do review question 2 in animation
8. What is first step of DNA replication?
9. What is the replication fork
10. Do review question 3 in animation
11. What is meant by template strand?
12. What enzyme elongates a DNA chain?
13. Can the enzyme in question 12 start a DNA chain from scratch?
14. What is needed to start a new DNA chain from scratch?
15. What is the leading strand?
16. What is the lagging strand?
17. What are Okazaki fragments?
18. Do review questions 4 and 5 in animation
19. What is meant by ATP dependent reaction?
20. Do review question 6 in animation
21. Describe DNA replication in detail
22. Drag proteins in animation
23. Do review question 8 in animation