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