

Name: _____ Date: _____ Period: _____

DNA and RNA Quiz

1) Molecules of DNA are composed of

**go to biology .com
**click on biology place
**close on biocoach
**click on DNA replication
**click on concept 5
**click the review button

on

replication fork is and how it is formed and use a diagram in your

1. Explain what a replication fork is.
2. Explain what is meant by semi-conservative replication.
3. Which direction does DNA polymerase work? Explain

strand by anti-parallel

Does DNA polymerase work? Is this a problem? Explain

**click step one

Which replication fork gets synthesized first?

4. Which of the replication forks gets synthesized first?
5. What is the function of primase in this process?
6. What does DNA polymerase do once this primase leaves?
7. What is this new DNA strand called? Why?

Function of primase in this process?

What does DNA polymerase do once this primase leaves?

What DNA strand called? Why?

**click step two

What happens next to the top strand of the replication fork.

What happens when the primase leaves this strand?

What DNA strand called? Why?

What name for this strand?

8. Explain what happens next to the top strand of the replication fork.
9. What happens when the primase leaves this strand?
10. What is this new DNA strand called?
11. What is another name for this strand?

**click step three

**click step four

What is the top strand termed discontinuously replicating?

Function of DNA ligase?

What does discontinuous mean?

12. Why is the top strand termed discontinuously replicating?
13. What is the function of DNA ligase?
14. What does discontinuous mean?

**click step five

What happens in the top strand of the replication fork?

15. What happens next to the top strand of the replication fork?
16. How is the top strand synthesized?
17. How is the bottom strand synthesized?
18. How is the lagging strand synthesized?
19. How is the leading strand synthesized?

What happens in the bottom strand of the replication fork?

on

List the functions of the following enzymes and proteins:

and

16. Give the functions of the following enzymes and proteins:
a. lagging strand