

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

is oriented by anti-parallel

Does DNA polymerase work? Is this a problem? Explain

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?

Which replication fork gets synthesized first?

What is the function of primase in this process?

What does DNA polymerase do once this primase leaves?

What is this new DNA strand called? Why?

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? Why?  
11. What is another name for this strand?

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

What happens when the primase leaves this strand?

What is this new DNA strand called? Why?

What is another name for this strand?

\*\*click step three  
\*\*click step four

Why is the top strand termed discontinuously replicating?

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

What is the function of DNA ligase?

What does semi-discontinuous mean?

What happens next in the top strand of the replication fork?

15. What happens next in the top strand of the replication fork?  
\*\*close this window  
\*\*click the practice button  
\*\*click on concept 6  
\*\*click on the review button

What happens next in the top strand of the replication fork? and make sure you can synthesize an entire strand of DNA

on

What are the functions of the following enzymes and proteins:

16. Give the functions of the following enzymes and proteins:  
a. lagging strand  
b. leading strand  
c. DNA ligase

and

and

e