DNA Replication Process /15 Name:

In this assignment, you will have to use 5 mins to explain the DNA replication process while including the following terms:

- RNA Primer
- DNA Polymerase
- DNA Helicase
- Replication Fork
- Lagging and Leading Strand
- Okazaki Fragment
- DNA Ligase

Purpose of this assignment:

For you to understand how the DNA replication process works

What is the success criteria?

To demonstrate mastery, you must be able to explain and verbalize the entire DNA process without the aid of notes during your explanation. You must be able to describe and explain the entire process with all the necessary enzymes and procedure on your own. You also must be able to understand how the leading and lagging strand works.

You have 2 different options to showcase your knowledge:

a. Record a video of yourself (less than 5mins) with you in the video explaining the process either on the board or on a large piece of paper.
b. Complete a 5 min presentation to the class without using Powerpoint. You must be able to draw out your DNA and show in stepwise fashion how the DNA replicates with all the necessary enzymes.

Rubric:
This assignment is worth 15marks:

15marks → *Well presented, able to demonstrate mastery in the content with all the appropriate and proper usage of terms.*
11-14marks → *Needing slight use of notes. Needing prompting on enzymes. Unable to answer questions.*
10marks → *Good presentation. Lacking understanding of the enzymes and replication fork and/or needing the use of notes to supplement presentation.*

5 marks → *Lack of understanding. Missed a large part of the process and/or not able to elaborate.*
0 marks → *Incomplete assignment*