



Task 1: DNA Replication Video

View the DNA Replication video by the Amoeba Sisters on YouTube and answer the questions below as you watch.

Click Here

1. Where does DNA replication occur in a eukaryotic cell?

In the **nucleus**

2. When does DNA replication occur in a eukaryotic cell?

Before it divides so the NEW Daughter cell can get a copy of the DNA---so before Mitosis or Meiosis in a time known as **INTERPHASE**

3. What do enzymes have the ability to do?

(enzymes end in ASE)---Enzymes **Speed up reactions** and **build up or break down the items** that they act on

Fill in the table below with information from the video.

Enzyme	Enzyme Nickname	Functions
4. Helicase	UNZIPPING enzyme	DNA has 2 strands and the HELICASE unzips the 2 strands-- IT BREAKS THROUGH the HYDROGEN bonds that hold the DNA bases together
5. DNA Polymerase	THE BUILDER enzyme	Replicates (COPIES) DNA molecules to actually build a NEW STRAND of DNA
6. Primase	THE INITIALIZER enzyme	Makes the PRIMER (RNA) to HELP POLYMERASE know where to go to get started in the replication (or copying)
7. Ligase	THE GLUER enzyme	Helps glue DNA fragments together

8. What is the name of the part of DNA where DNA replication starts?

ORIGIN -identified by a certain DNA sequence (EUKARYOTES have many origins--PROKARYOTES have only 1 origin)

9. What binds to the DNA strands to keep them separated?

SSB Proteins (Single Stranded Binding Proteins)

History Of Dna Webquest Answer Key

WJ Hussar



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