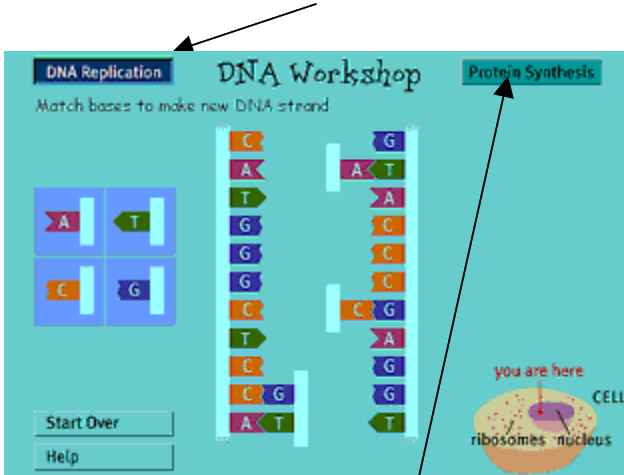


Interactive Activity: <http://www.pbs.org/wgbh/aso/tryit/dna/#>

Part I: Click on DNA Replication

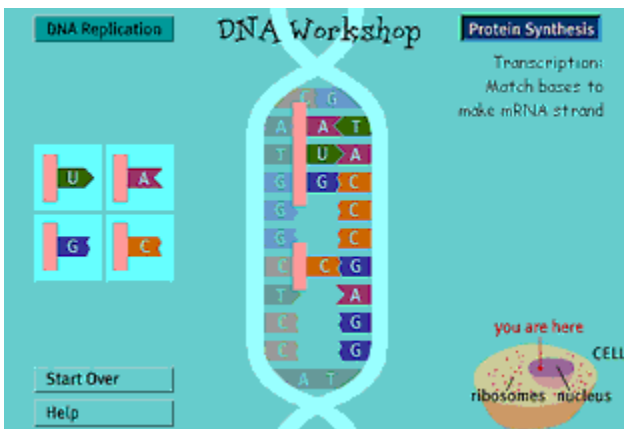


Click on **Unzip**, then **OK**, then Click and Drag the **matching bases** until all of the bases are paired up.

Where does DNA replication take place?

A pairs up with _____ C pairs up with _____
G pairs up with _____ T pairs up with _____

Part II: Click on Protein Synthesis



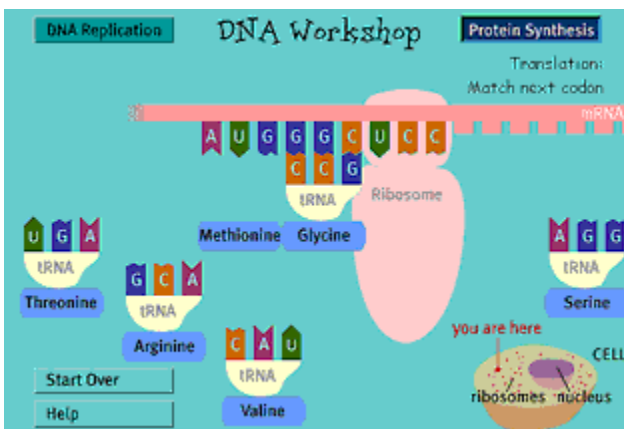
Click on **Unzip**, then **OK**, then Click and Drag the **matching bases** until all of the bases are paired up.

Transcription takes place in the _____ and forms mRNA.

Like DNA, RNA is made up of _____ bases. Three of these bases, _____ (A), _____ (C), and _____ (G), are the same as DNA. But instead of thymine (T), the fourth base is _____ (U).

Part III will load by itself when you are done.

Part III: Translation



Drag the appropriate tRNA from the bottom of the screen to the left most codon of the mRNA.

Translation takes place outside the nucleus at the _____.

The bases in mRNA are grouped into sets of three called codons, in tRNA the matching sets are called _____.

List the amino acids in the polypeptide chain that you just formed: