

DNA Sidewalk Chalk Model

Goal: You and a partner will draw a DNA molecule that is beginning replication. You will use different colors to represent different components of the DNA molecule and enzymes used in replication. You will include: displaying anti-parallel structure of DNA (5'-3' and 3'-5'), sugar-phosphate backbone, base pairs following Chargaff's Rules linked by hydrogen bonds, action of enzyme helicase and polymerase in adding daughter strands to the original parent strands within the replication bubble at the replication fork! Your model must have 6 base pairs.

Color key:

cytosine

guanine

adenine

thymine

phosphate group

deoxyribose

DNA helicase

DNA polymerase

don't forget to label the replication bubble



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