

Learn DNA Replication

- 1) Explain that DNA is the code that tells our cells what to do.

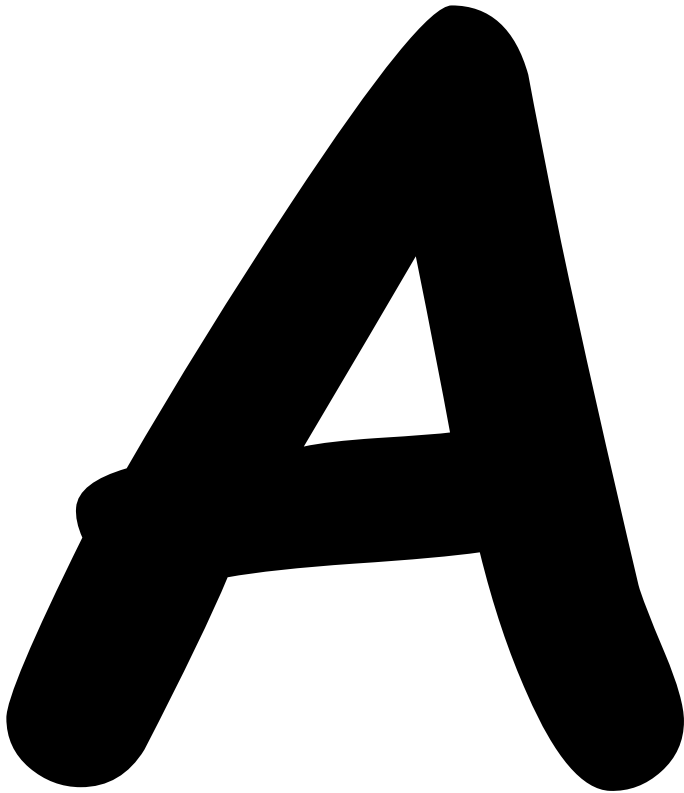
Materials:

Assorted signs GCAT

Large signs (foamcore shapes) labeled with "helicase", "dna polymerase"

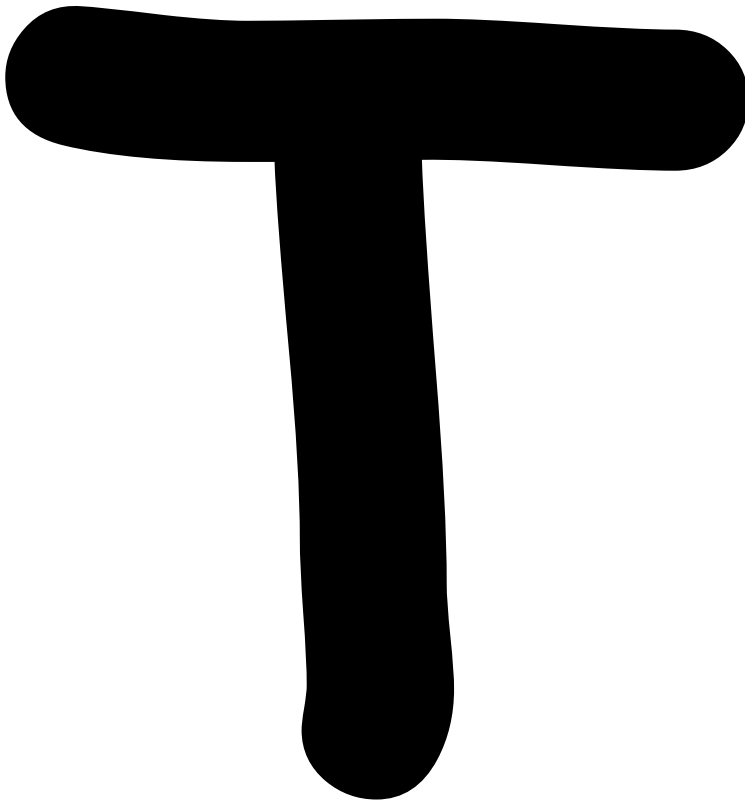
- 2) Line up approximately 1/8 of the class holding signs. Explain that nucleotides are paired G-C and A-T.
- 3) Match up another 1/8 of the class to form a 'double strand' according to the set pairing. Explain that this is called the parent strand.
- 4) Have one student use the 'helicase' shape to unzip the strand, and then assign two (mature) students to be DNA polymerase.
- 5) After distributing signs to 1/4 of the class, have the two polymerases go and pick 'nucleotides' out of the class and bring them back to be matched up.

Adenine



Adenine

Thymine



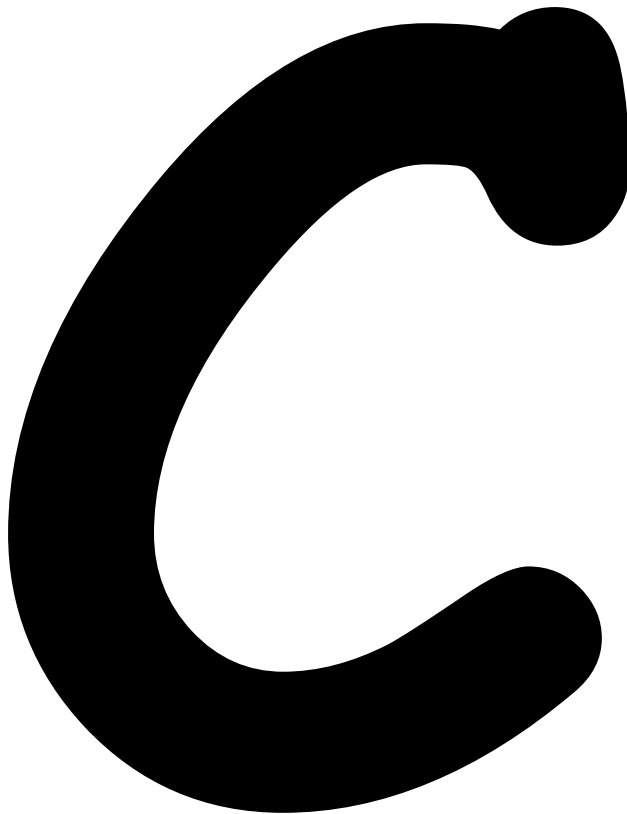
Thymine

Guanine



Guanine

Cytosine



Cytosine

DNA

Polymerase

Helicase