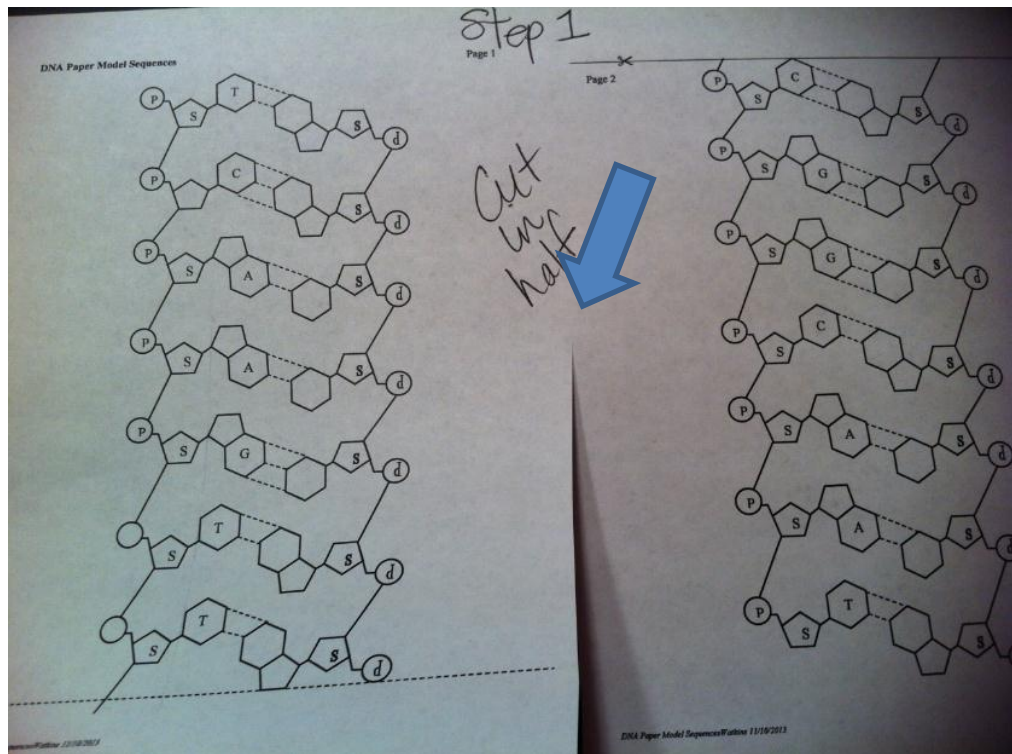


DNA Replication Lab

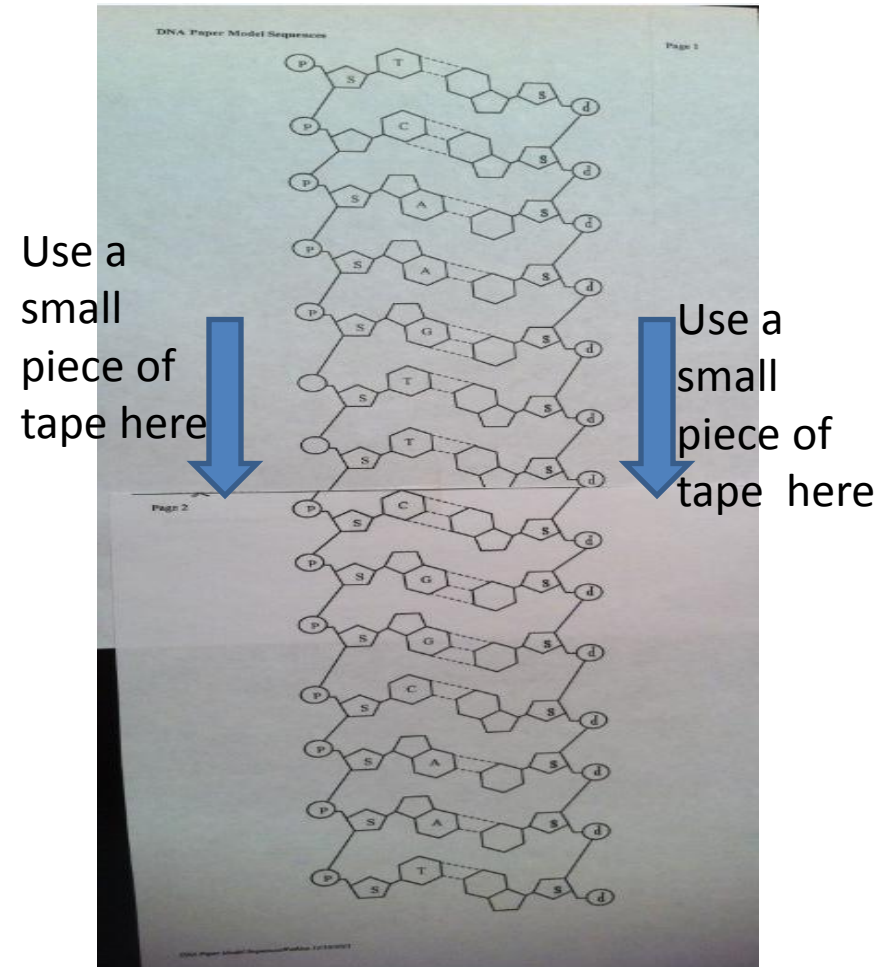
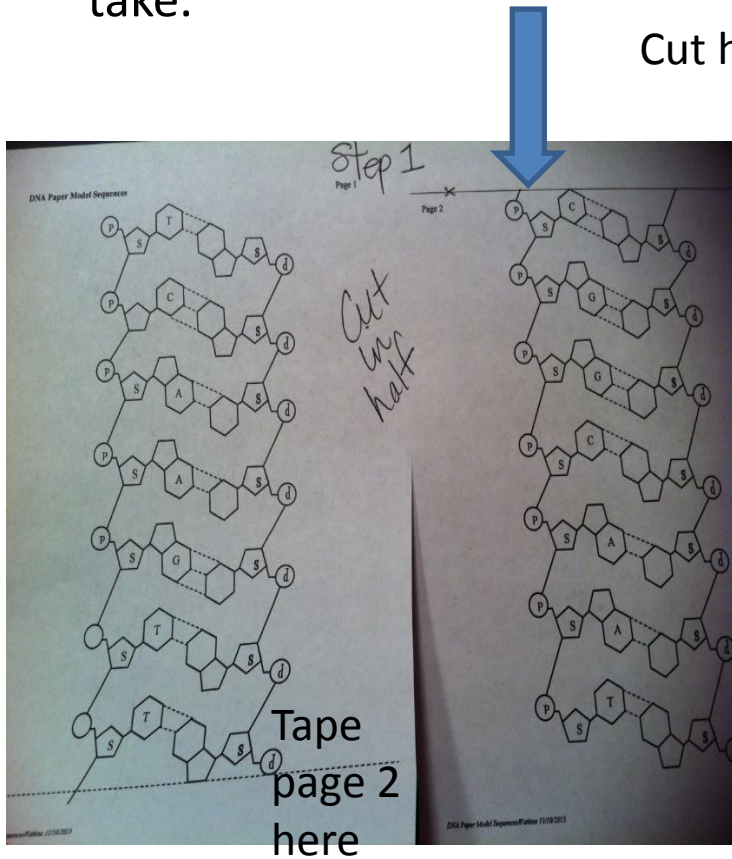
Step 1

- Cut Page 1 and 2 in half



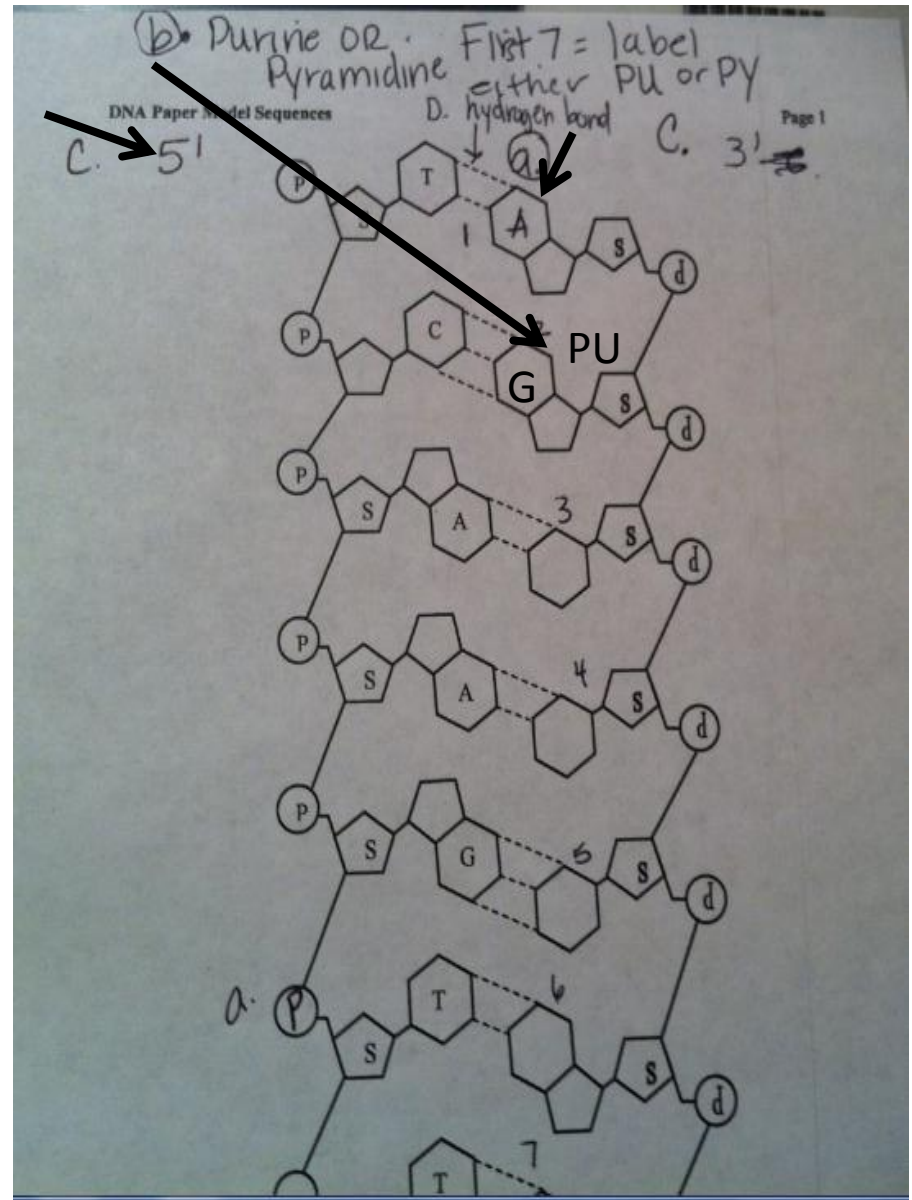
Step 2

- Cut on the solid line on page 2 and tape them together with small pieces of tape.



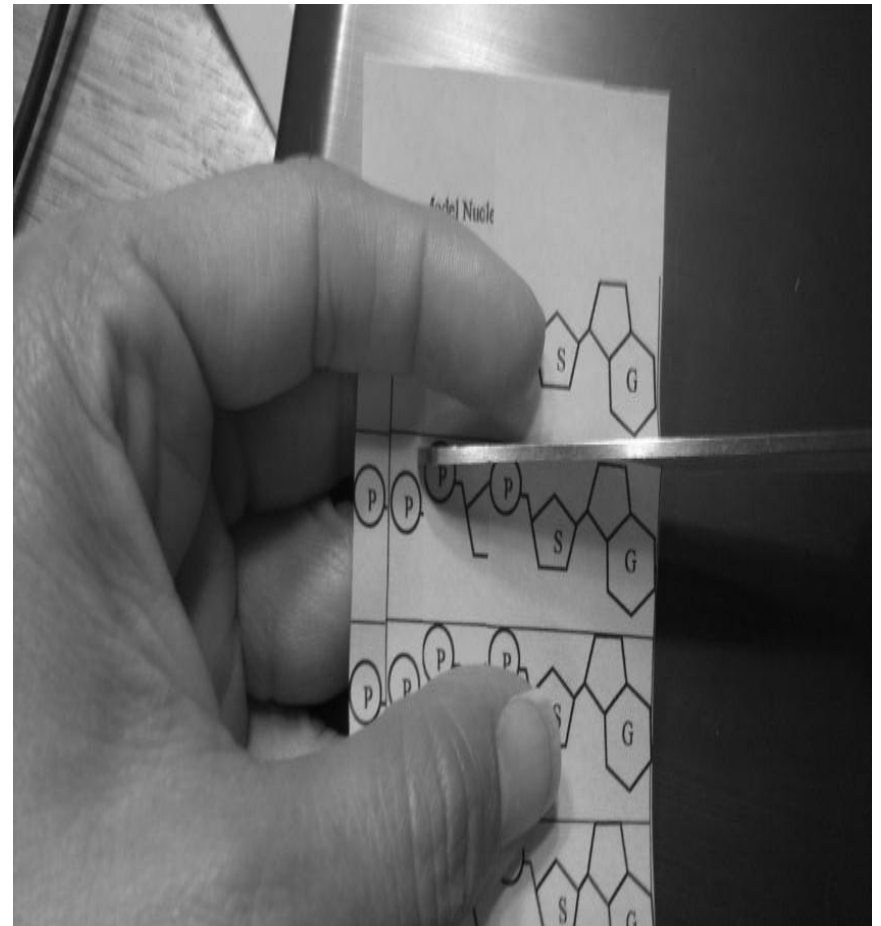
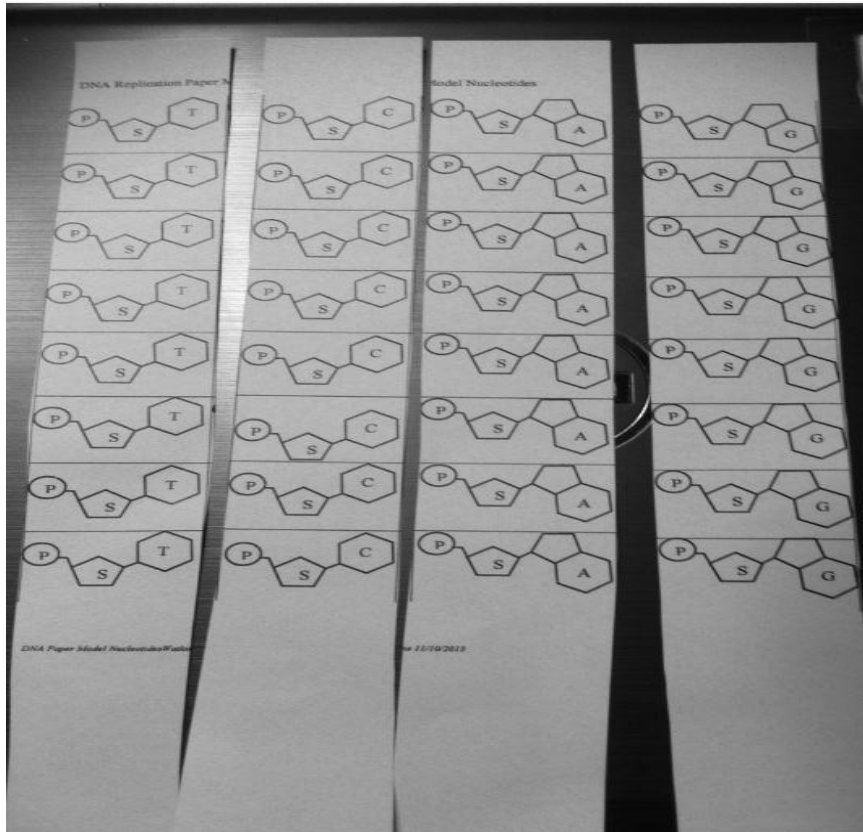
Step 3:

- A. Fill in the complementary base pairs (A, T, C, G) and backbones (phosphate).
- B. Label Purine (PU) and Pyrimidine (PY) only on page 1 (first 7 nucleotides.)
- C. Label the 5' to 3' on each strand.
- D. label hydrogen bond between each base pair (A-G, C-T)



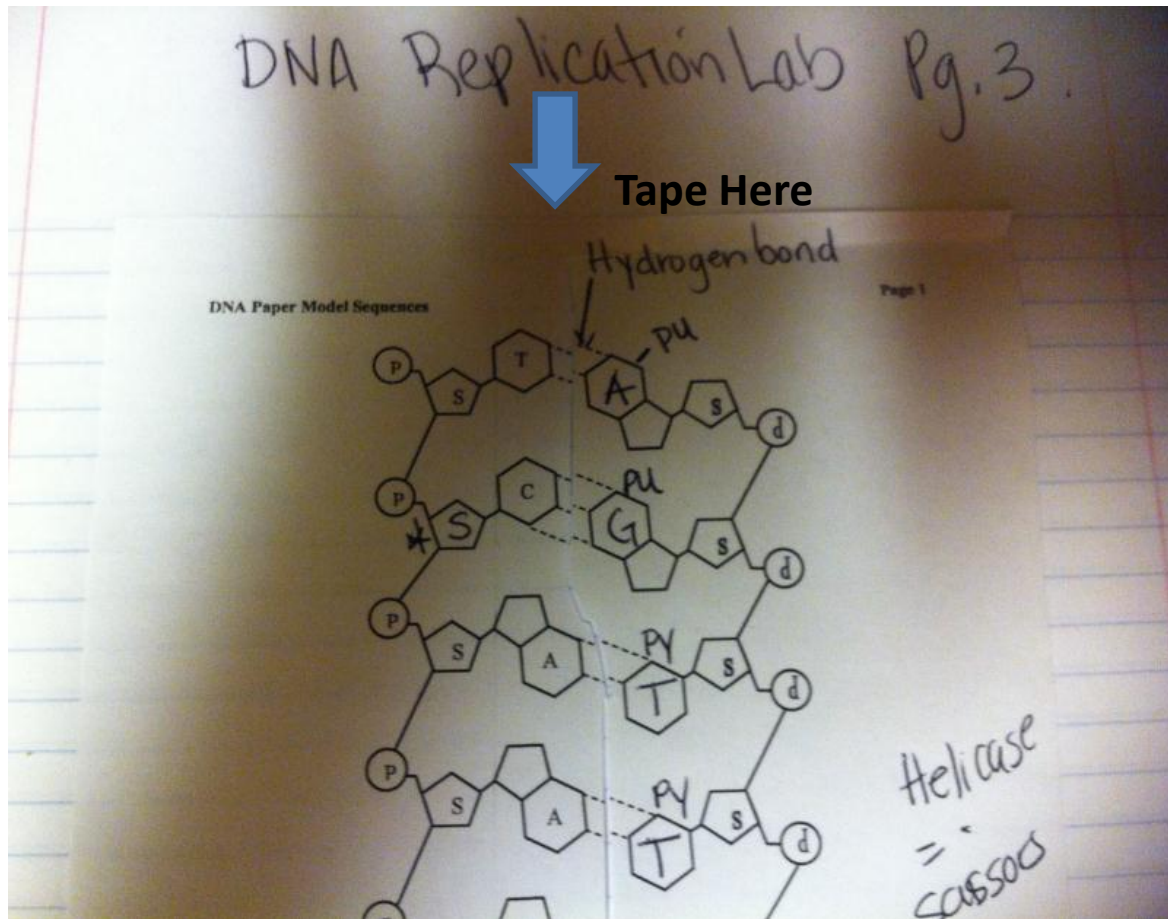
Step 4

- Cut each nucleotide out of the pink paper.
- Hint: cut all four columns then line them up and cut 4 at a time.



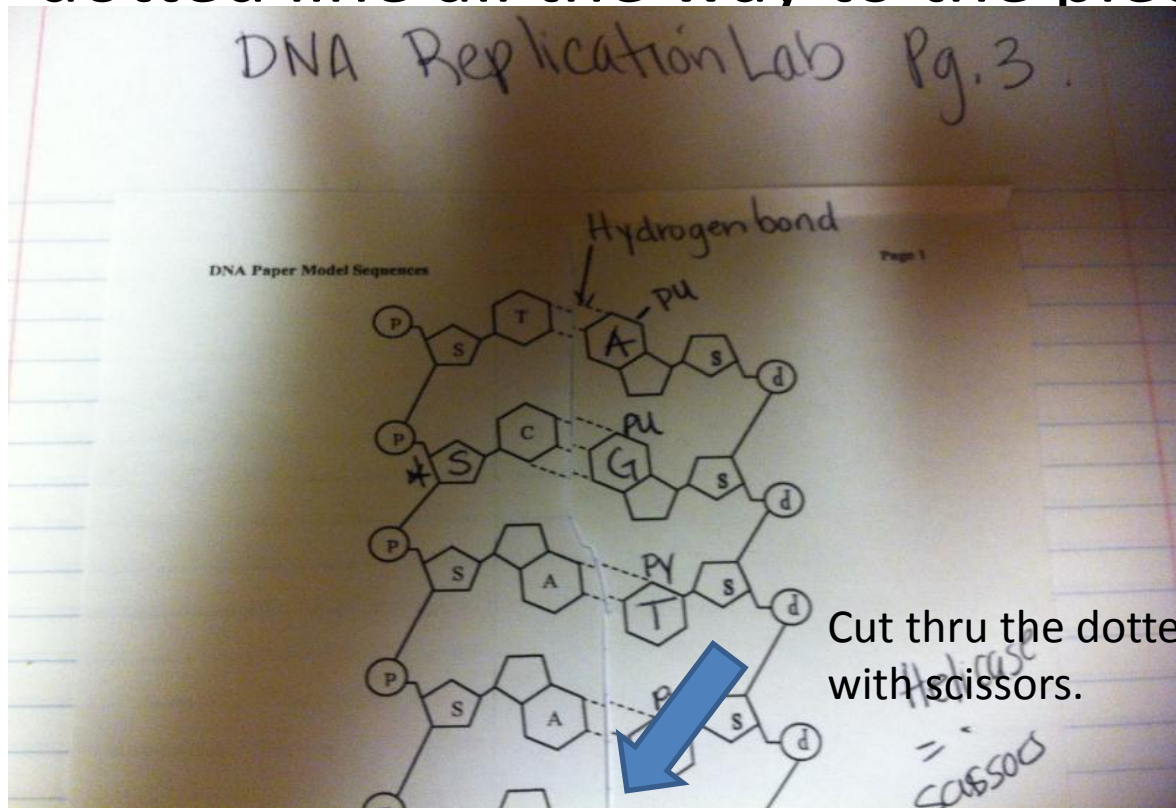
Step 5

- Tape into notebook page 3



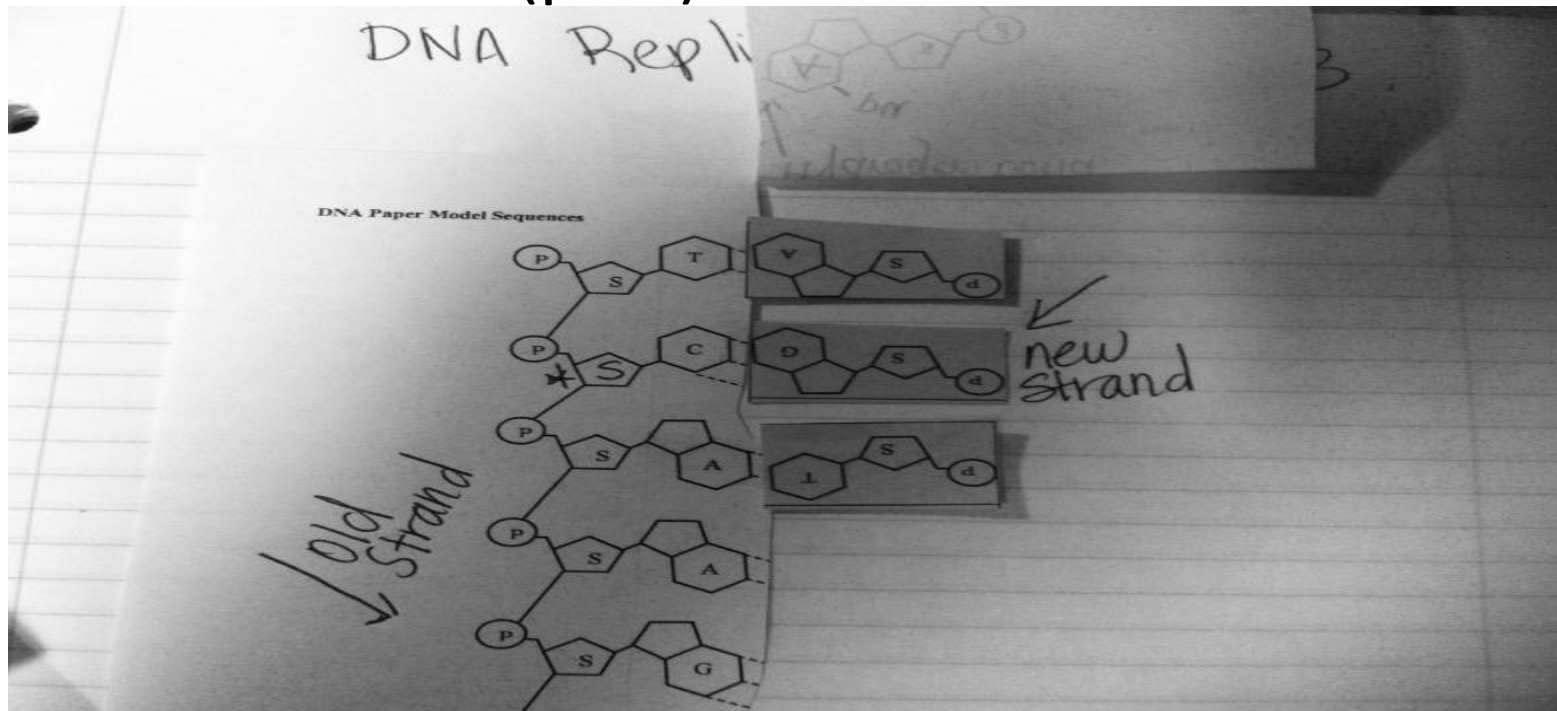
Step 6

- Scissors represent enzyme Helicase which break the hydrogen bonds. Cut thru the dotted line all the way to the piece of tape.



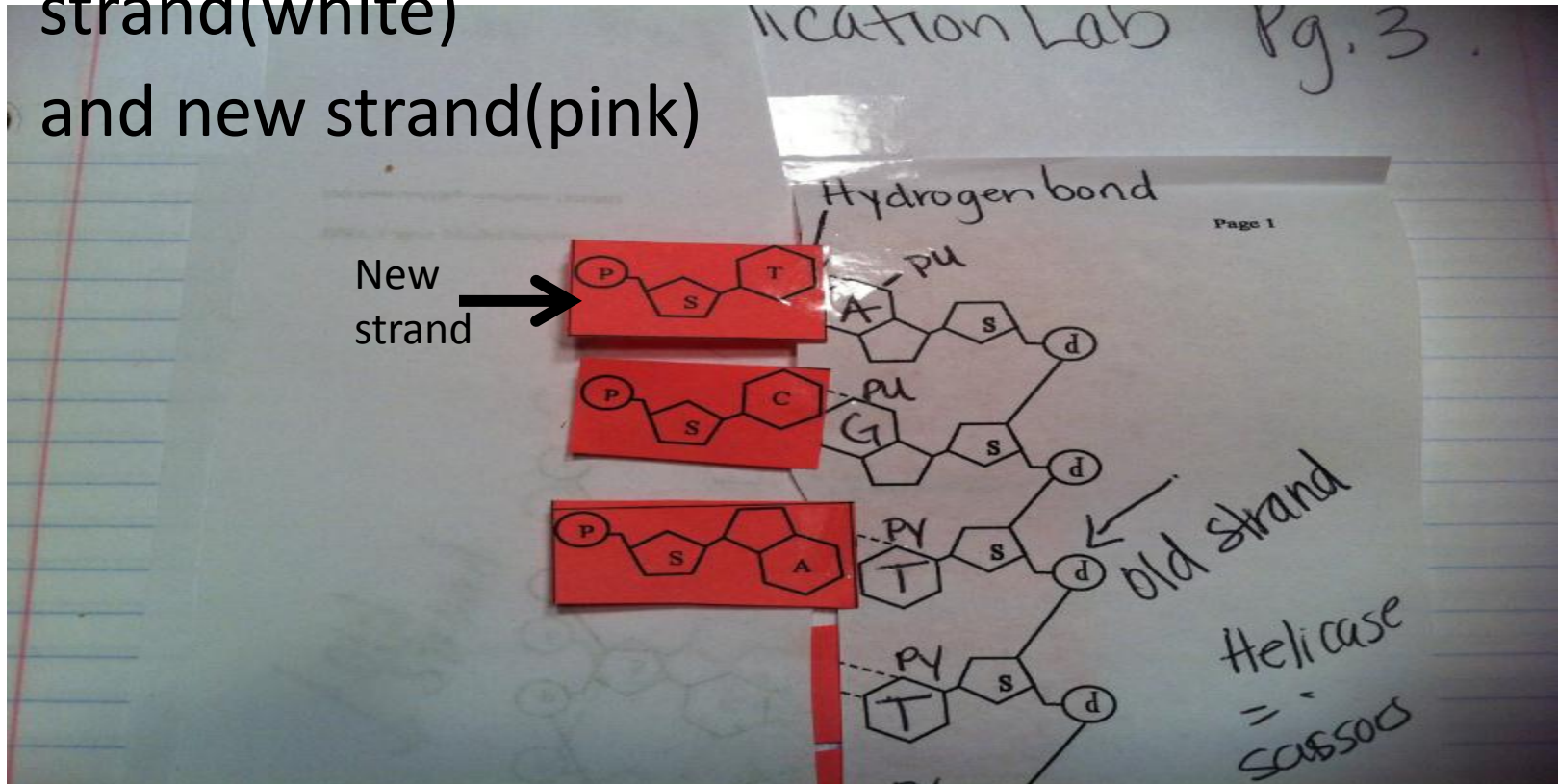
Step 7

- Add the nucleotide (pink) to broken bonds. Start on the left side. Fold other side up.
- Make sure that A-T are taped together and C-G are together. Label the old strand (white) and new strand (pink)



Step 8

- Add the nucleotides to the right side of the white paper . Make sure that A-T are taped together and C-G are together. Label the old strand(white) and new strand(pink)



Step 9

- You will have 3 nucleotides left.
- Show work to teacher for grade.
- Fold up the replicated DNA in your notebook

