

Protein Synthesis Project

- ❖ Fold the right end of page 1 where the drawing begins. Tape the two sheets together so your protein synthesis matches the one in the book on page 111. (Overlap the ends and tape)
- ❖ Title your paper "Protein Synthesis" in your best printing spanning both pages.
- ❖ Put your name in the upper left corner of page 1

Labels: include the following labels in the correct places (Yes you literally need to write the entire label)

1. DNA Never leaves the nucleus
2. DNA unzipping into two strands in the nucleus so the Messenger RNA can copy the code.
3. Nucleus
4. Nuclear Pore
5. Cytoplasm
6. Messenger RNA Leaving nucleus through a nuclear pore
7. Messenger RNA in the cytoplasm with the DNA code copied
8. Ribosome
9. Ribosome reading each 3 letter code along the MRNA strand
10. Transfer RNA with Amino Acid attached
11. Transfer RNA with protein chain attached
12. Protein Chain is complete when the ribosome reads a 3 letter code that means to stop

Coloring!

Use the correct colors as shown in your book.

Make a color key at the bottom left of page one. In your key be sure to include the colors for each of the nitrogen bases and which bases always pair up.

Color Key	
Adenine = Red,	
Thymine = try to find this one!	
Guanine =	
Cytosine =	
Uracil =	
A pairs with _____ (DNA)	A pairs with _____ (mRNA)
C pairs with _____ (DNA)	

Remember that Uracil replaces Thymine on the Messenger RNA strand.