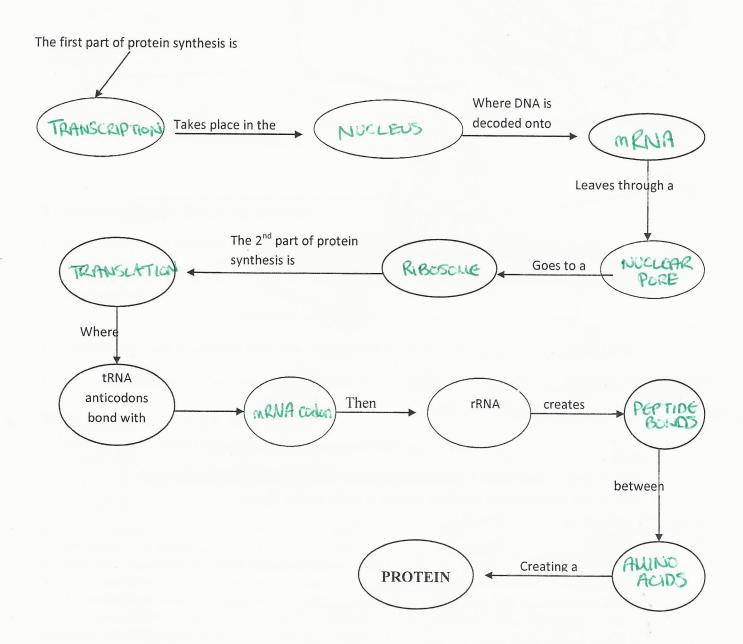
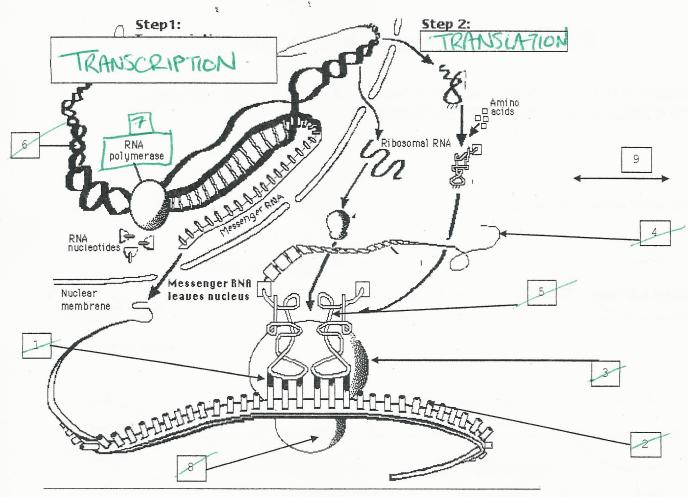
Protein Synthesis Flow Chart

<u>Directions:</u> Fill in the flow chart below, using the following words: <u>Amino acids, mRNA, mRNA codon, nucleus, nuclear pore, peptide bonds, ribosome, transcription.</u>



PROTEIN SYNTHESIS



LABEL

- A. Fill in Step 1 and Step 2 (choose between transcription and translation)
- B. Fill in the appropriate number below refer to the figure.
- 3 ribosome large subunit
- 5 tRNA
- **2** mRNA codons
- polypeptide (amino acid polymer)
- 🥏 ribosome small subunit
- tRNA anticodon
- C DNA
- 🚹 RNA polymerase enzyme
- 🤨 cytoplasm

Protein Synthesis Review Worksheet

1. How are DNA and mRNA alike? -contain A, C, G bases * meller is an copy of the coding strand except the coding strand except Ureplaces T. 2. How are DNA and mRNA different? Fill in the table below.		
DNA		mRNA
DOUBLE STRANDED	Shape	SINGLE STRANDED
A.T.C.B	Nitrogen bases	AIUICIG
de exyribase	Sugars	ribose
Nuclaus	Location	NUCLEUS / CYTOPLASY
 Transcription: DNA to mRNA: How many strands of mRNA are transcribed from the two "unzipped" strands of DNA?		
code onto mRNA? G-G-A-T-C-G-C-C-T-T-A-G-A-A-T-C CCUAG CGGAAUCUUAG		
 If DNA is described as a double helix, how should mRNA be described? Stogle stranded How are the accuracy of DNA and mRNA codes assured? DNA Replication > professed and 		
4. How are the accuracy of DNA and mRNA codes assured? DNA Replication > processed and corrected mRNA to PROTEIN: 5. Name and describe the three types of RNA's involved in protein synthesis? REPERTORS OF THE PROTEIN: 6. NAME AND REPERTORS OF THE PRO		
 6. What is located at EACH end of a 7. Where must an mRNA attach bef 8. How many bases are needed to s 9. If a strand of mRNA contain the s be needed to translate the seque 10. How does mRNA get out of the n 11. What is the difference between a 	recity an mriva codo sequence, U-A-G-C-U- ence? AVC GA ucleus? Inrough an amino acid and a p	TU-C-A-A-A-U, what tRNA anticodons would the nuclear pore rotein? An amino acid is the of a protein, Amino acids ink to jon and told to produce a function