DO NOT WRITE ON THIS PAPER

Resources you may use:

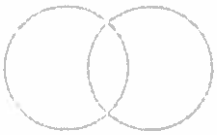
Notes

Gene to Protein work packet

Text Book pg. 81, 125-129,130-133

18 BOXES

1.Draw a picture of DNA and label the following parts: phosphate group, Bases, Sugar	2.Draw a picture of transcription and label the following parts: DNA molecule, Nucleotides of DNA, Nucleotide of MRNA, DNA polymerase	3.Draw a picture of translation on page 131 and label the following parts: Ribosome, TRNA, MRNA
4.Write down a name of two different amino acids	5.Draw a TRNA molecule: Label amino acid, Anti-Codon	6. Write your name, date and period
7. Draw a picture of MRNA and cricle 9 codons	8. Draw a picture of 3 TRNA molecules with anticodons that match the codons in the MRNA you have drawn in # 5	9.What is the codon to ATC?

10.What is the anticodon to ACU?	11.Draw a protein with 5 different amino acids (see page 8 in gene protein packet) 	**12.Draw a picture of the cell cycle. Label each of the four phases**
13.What part of the CELL CYCLE is similar to transcription?	**14. What are the 4 phases of Mitosis** **1**_____ **2**_____ **3**_____ **4**_____	13.Make a Venn diagram showing the similarities and differences between replication and transcription 
S=Normal hemoglobin **S=sickle cell hemoglobin** **Ss X Ss** **What percentage of off-spring will be homozygous recessive?** **What percentage of off-spring will be homozygous dominant?** **What percentage of off-spring will be heterozygous dominant?**	**P=Normal pigment** **p=Albinism** **PP X Ps** **What percentage of off-spring will be homozygous recessive?** **What percentage of off-spring will be homozygous dominant?** **What percentage of off-spring will be heterozygous dominant?**	**What causes sickle cell hemoglobin?** **(3-5 sentence response)**