Protein Synthesis Class Worksheet

- 1- Answer questions A-H using the lead DNA strand below GAGTAATAATGAACCGAA
- A- Complimentary strand:
- B- mRNA strand:
- C- tRNA strand:
- D- AA produced:
- E- Is it possible to change the codon CUC and still keep the same AA?
- F- What would happen if a 'T' is added before the first nucleotide?
- G- Where could you add a nucleotide and not change any of the sequence given?
- 2- Determining when peptide bonds should be used Remember mRNA start is AUG and ends are UAA UAG UGA
- A- What occurs to AA before the start codon and after end codon?
- mRNA: UCU GCU AUG AAU UCA UAG GUU CCC
- AA: Ser Ala Start Asn Ser Stop Val Pro
 - B- What occurs if many AA given with no start codon, but an end codon is given?
- mRNA: UCU UGC UGU UAA UCU CUU AUG GCG
- AA: Ser Cys Cys Stop Ser Leu Start Ala
- C- What occurs if you have 2 or more start codons in the sequence? mRNA: AUG CCC GGG CCC AUG CCC GGG AUG UGA AA: Start Pro Gly Pro Start Pro Gly Start Stop