

Using the Genetic Code

1. If the DNA template for an amino acid is ATA, what will the
 - a) mRNA codon be? _____
 - b) tRNA anticodon be? _____
- a. Which amino acid does this represent? _____
2. List the sequence of amino acids that would be formed from the following portion of mRNA: AAU GAA UAU GAA CCU

Base composition of DNA from a sample of pig cells			
X	Guanine	Y	Z
27%	21%	21%	27%

3. Using the table above, give the correct identification of the bases X, Y and Z.
4. a) Write the sequence of bases transcribed from the following strand of DNA:
TACCATTGTACCGATGATAAC
 - a. Using the mRNA codon table, write the amino acid sequence that would be synthesized by this DNA strand?
 - b. Referring to questions 4a and 4b, what would be the sequence of tRNA anticodons?

