CDIALL	
SBI4U Name:	

GENETIC CODE WORKSHEET

Procedure A: Using the first table (identify the protein coded for by the DNA in your flask)

1	Record	the	flask	#

- 2.
- Record the DNA bases from your flask in ascending numerical order.

 Transcribe the DNA triplets into the corresponding mRNA codons.

 Translate the mRNA codons into amino acids using a Codon Table (from text).
- Choose your protein from the list (bottom of page) by comparing the 3 amino acids.

DNA triplets		<u>_</u>	
mRNA codons		<u>=</u>	
amino acids	(aa1)	(aa2) -	(aa3)
name of protein			

Procedure B: Using the other tables

Use one table for each of the remaining proteins. Write the name of the protein on the bottom line of a table then work backwards (from bottom to top of table). Note: there may be more than one mRNA codon and DNA triplet that fits; just choose any one that works.

DNA triplets	<u>-</u>	-	
mRNA codons		-	
amino acids	(aa1) -	(aa2) -	(aa3)
name of protein			
DNA triplets		-	
mRNA codons			
amino acids	(aa1)	(aa2)	(aa3)
name of protein			
DNA triplets			
mRNA codons			
amino acids	(aa1) -	(aa2) -	(aa3)
name of protein			

insulin

myoglobin

... alanine - serine - valine arginine - leucine - phenylalanine serine - glutamine - lysine leucine - histidine - cysteine ... ribonuclease hemoglobin