)

Name:	
Date:	Entry #

DNA Coding: My DNA Pet

Directions: You will be given a new pet, but all you know about it is its DNA code. Use the DNA code to find out what your pet looks like. Sketch your pet at the bottom.

Each number has a piece of your pet's genetic code (DNA). This piece has the information for a certain gene (characteristic). Match the bases to make a strand of messenger RNA (mRNA). Each group of three bases on the mRNA forms a codon. The codon matches an amino acid. Use the table to find the correct amino acid from the mRNA codon. The amino acids join together to form a protein. The protein will determine which characteristic your pet has.

I. Head Shape:	×	
ONA strand:	T A G G A T C	C T
mRNA:		C T
Amino Acids: HEAD:		
Ile, Leu, Gly	Leu, Ala, Glu	Ile, Pro, Arg
		U
II. Body Shape:		
DNA strand: mRNA:	A C G A G T T	A T
Amino Acids:		
BODY:		
Cys, Ser, His	Cys, Ser, Ile	Ser, Cys, Thr

III. Face:									
DNA strand:	Τ	С	Α	G	T	Α	G	С	Т
mRN <i>A</i> :			-			_	Ū	V	,
Amino Acids:	_						···		
FACE:									
Gly, Thr, Arg			Se	r, His,	Arg			Gly	, Thr, Trp
O O U IV. Ears:			<						- <u> </u>
									•
DNA strand: mRNA:	G 	T ⁻	<i>C</i>	G	С	Τ	Α	С	Α
Amino Acids:	n								
EARS:				· · · · · ·					
Gln, Arg, Cys	χ.		Asn	, Arg,	Leu			Val,	Ser, Phe
ri			()					G	
V. Legs/Feet:		-						<u> </u>	
DNA strand:	Т	Т	Α	G	Α	G	T	Α	Α
mRNA:									
Amino Acids:									
APPENDAGES/LEGS/F	EET:					· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Gly, Tyr, Cys			Asn,	Leu, I	le			Gly,	Phe,Pro
MV NEW DET:								SS	