BREAKING THE CODE

TRANSCRIPTION

For the DNA sequence below, write the sequence of the complementary strand of DNA that will result after replication.

	DNA triat will resort after replication.
	DNA #1: TACCGGATGCCAGATCAAATC
	DNA #2:
2.	Transcribe mRNA using DNA #1 in the problem above. Mark codons appropriate mRNA:
3.	Transcribe mRNA from the DNA strand complementary to the strand below. Maccodons appropriately.
	DNA #1: ATGTTTCATAGGGCGATAGAGTAG
	mRNA:
4.	Determine the DNA sequence used to transcribe the mRNA below. mRNA: AUGGUUUUCGCAGAUGGGAAUUGA
	DNA:
TR	ANSLATION
5.	Use the mRNA strand below and the genetic code chart on the back of this worksheet to determine the amino acid sequence it codes for. Abbreviations are acceptable. MRNA: AUGGUUUUCGCAGAUGGGAAUUGA
	A.A. Sequence:
6.	Determine the anticodon sequence used to create amino acid chain in the above problem. Anticodons (tRNA):
7.	Determine the amino acid sequence coded for by DNA strand below. DNA #1: TACCGGATGCCAGATCAAAAAATT
	A.A. Sequence:
8.	What DNA sequence could have coded for the amino acid chain below? A.A. Sequence: Met – Ala – Thr – Leu – Tyr – Lys – Val – Arg – STOP
	DNA :

BREAKING THE CODE

TRANSCRIPTION

	DNA #4.	TACCGGATGCCAGATCAAATC
	DNA that will resul	It after replication.
1.	For the DNA seque	ence below, write the sequence of the complementary strand of

	DNA #1:	TACCGGATGCCAGATCAAATC
	DNA #2:	
2.		sing DNA #1 in the problem above. Mark codons appropriat
3.	codons appropriate	•
	DNA #1:	ATGTTTCATAGGGCGATAGAGTAG
	mRNA:	
4.	Determine the DNA mRNA:	sequence used to transcribe the mRNA below. AUGGUUUUCGCAGAUGGGAAUUGA
	DNA:	
TR	ANSLATION	
	Use the mRNA strar	nd below and the genetic code chart on the back of this nine the amino acid sequence it codes for. Abbreviations are
	mRNA:	AUGGUUUUCGCAGAUGGGAAUUGA
	A.A. Sequence:	
6.	Determine the antic	odon sequence used to create amino acid chain in the above
	Anticodons (tR	NA):
7.		o acid sequence coded for by DNA strand below.
	DNA #1:	TACCGGATGCCAGATCAAAAAATT
	A.A. Sequence:	
8.		e could have coded for the amino acid chain below? Met – Ala – Thr – Leu – Tvr – Lvs – Val – Arg – STOP

DNA : _____