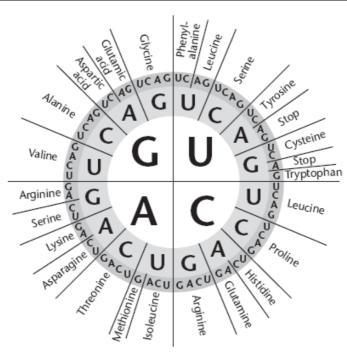
13.2 Ribosomes and Protein Synthesis

The Genetic Code

Use the diagram to answer Questions 1-7.

1. What are the words along the outside of the circle?



- 2. What can you find by reading this diagram from the inside out?
- **3.** For which amino acid is AAA a codon?
- **4.** What is the codon for tryptophan?
- **5.** For which amino acid is GGA a codon?
- **6.** What is a codon for alanine?
- 7. What are three other codons for alanine?

Transl	ation	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Use the dia	agram to answer Questions 8–10.				
8. What is	s the anticodon for leucine?	\sim	JE	J.	
9. What is	s the codon for leucine?				
would a	amino acids in the order they appear in the polypeptide coded for mRNA.				
		MRNA AMAGUG			
11. What is	the difference between transcription	and transla	tion?		
The Mo	olecular Basis of Hered	litv			
	ions 14–18, write the letter of the co	•	er on the li	ine at the le	eft.
13.	The instructions for assembling proA. genes.B. ribosomes.C. exons.	teins are co	ntained in t	he	
	D. introns.				
14.	The central dogma of molecular biology is that information is transferred from				
	A. RNA to protein to DNA.				
	B. DNA to protein to RNA.				
	C. protein to DNA to RNA.				
	D. DNA to RNA to protein.				
15.	An exception to the central dogma is				
	A. the infection of a virus by a bacteriophage.				
	B. the ability of some viruses to transfer information from RNA to DNA.				
	C. the expression of different genes during different stages of development.				

D. the translation of the codon into the anticodon of tRNA.

Phenylalanine leucine lysine methionine