

Chapter 10, 11, 12, 13, 14 Study Guide

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. RNA differs from DNA in that RNA
 a. is single-stranded. c. contains the nitrogen base uracil.
 b. contains a different sugar molecule. d. All of the above
- _____ 2. Which of the following is *not* found in DNA?
 a. adenine c. uracil
 b. cytosine d. all of the above
- _____ 3. In RNA molecules, adenine is complementary to
 a. cytosine. c. thymine.
 b. guanine. d. uracil.
- _____ 4. During transcription, the genetic information for making a protein is “rewritten” as a molecule of
 a. messenger RNA. c. transfer RNA.
 b. ribosomal RNA. d. translation RNA.

mRNA: CUCAAGUGCUUC

Genetic Code:

	U	C	A	G	
U	Phe	Ser	Tyr	Cys	U
	Phe	Ser	Tyr	Cys	C
	Leu	Ser	stop	stop	A
	Leu	Ser	stop	Trp	G
C	Leu	Pro	His	Arg	U
	Leu	Pro	His	Arg	C
	Leu	Pro	Gln	Arg	A
	Leu	Pro	Gln	Arg	G
A	Ile	Thr	Asn	Ser	U
	Ile	Thr	Asn	Ser	C
	Ile	Thr	Lys	Arg	A
	Met	Thr	Lys	Arg	G

Each expert group will need to determine what the key information for their section of material is. They will need to break it down into terminology that is understandable and filter out unimportant information. Each group will follow the guiding questions below to help narrow their field. Each group will prepare a handout to help their classmates under the material – you will have to verbally present this information to your classmates as well. Your handout should contain at least one diagram/picture that is easy to understand and you must use three sources (your text can be one!) to gather your information. If you need photocopies of your handout, you must turn it into Ms. Sargent by the end of the day!!

Expert Groups:

Group 1: Color, Light and Pigments

Group 2: Dark Reactions

Group 3: Light Reactions

Group 4: Anaerobic Respiration

Group 5: Aerobic Respiration

Guiding Questions

1. What is the main idea that all students should be aware of in regards to your area? Is there more than one main idea?
2. What are the important supporting concepts? Why are these important?
3. What are the most important supporting details? Remember, you should have a limited