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Name	Class	Date		
Chapter 12 DNA and R	NA			
Section 12-1	DNA (pages 287–294)			
	liscover about the relationship bet tructure of the DNA molecule?	ween genes and DNA?		
	formation (pages 287–289)			
1. What did Frederick Gr	iffith want to learn about bacteria?			
2. The strain of bacteria t	hat caused pneumonia grew into _	colonies		
on culture plates; harm	nless bacteria produced colonies w	ithedges.		
3. Circle the letter of each	sentence that is true about Griffith	h's experiment.		
a. Mice injected with h	a. Mice injected with bacteria from smooth colonies died.			
b. Mice injected with b	b. Mice injected with bacteria from rough colonies died.			
c. Mice injected with h	c. Mice injected with heat-killed bacteria from smooth colonies died.			
d. Mice injected with a rough colonies died	n mixture of bacteria from heat-kill	ed smooth colonies and live		
4. What result from Griff	ith's experiment suggested that the	e cause of pneumonia was not a		
chemical poison releas	chemical poison released by the disease-causing bacteria?			
5. What is transformation	1?			
6. What hypothesis did C	What hypothesis did Griffith form from the results of his experiments?			

Avery and DNA (page 289)

7.	Is the following sentence true or false? Avery and his colleagues thought that the
	molecule required in transformation might also be the molecule of the gene.

8. Briefly describe how Avery and his group determined which molecule was more			
	important for transformation.		