Name:						
DNA History Webquest [©]						
Fir ext	Friedrich (Fritz) Miescher p://www.dnaftb.org/15/bio.html nd Miescher on the timeline and click on the bucket with the Red Cross to watch the animation. In 1869, he cracted a substance from white blood cells that he called nuclein. What do you think he was actually cracting?					
	Frederick Griffith p://simple.wikipedia.org/wiki/Griffith's_experiment					
<u>htt</u>	p://www.mun.ca/biology/scarr/Transformation Experiment.html					
	iffith's Experiment – The following questions pertain to Griffith's experiment: What organism(s) did Griffith use in his experiment?					
2.	What are the two strains of pneumococcus and the distinguishing characteristics of each?					
	Strain Distinguishing Characteristics					
3.	How did Griffith determine which strain caused disease?					
4.	In one experiment, Griffith injected heat-killed S strain bacteria into the mice.					
	a. What was he trying to determine by conducting this experiment?					
	b. What were the results of this experiment?					
	c. What conclusion did he reach based on these results?					
5.	In another experiment, Griffith mixed heat-killed S strain with live R strain bacteria and injected the mixture into mice.					
	a. What strain of the bacteria was found in the blood samples of the mice?					
	b. What were the results of this experiment?					
	c. What conclusion did he reach based on these results?					

III: Oswald Avery, McCarty and McLeod

http://www.austincc.edu/~emeyerth/dnagen.htm

 $\underline{https://sites.google.com/site/gstnteam23/avery-macleod-mccarty-experiment}$

	each m		questions pertain to Avery's ether they caused a transform		d not cause a transformation		
(a. RNAb. DNAc. Proteins			Carbohydrate Lipids		
6.	In 194	4, what did he discover that	at DNA is responsible for?				
		Hershey and Martha Ch y.thinkquest.org/TQ03126					
http	o://biolo	gy.clc.uc.edu/courses/bio1	04/dna.htm				
http	o://en.wi	kipedia.org/wiki/File:Hers	shey Chase experiment.png				
7.	What are bacteriophages?						
8.	Sketch a diagram of a bacteriophage in the space provided. Label the protein coat and the DNA of the virus.						
9.	What effect does a bacteriophage have on E. coli bacteria?						
10.			teriophages in a culture with ge was the 35S incorporated				
	b.	The phages were then all coli?	owed to infect E coli. When	e was the 35S four	nd after mixing with the E.		
	c.	What conclusion did Her	shey and Chase make, based	on these results?			
11.	phages	were then allowed to infe	bacteriophages in a culture ct E coli. owed to infect E coli. When	-			
	e.	What conclusion did Her	shey and Chase make, based	on these results?			
	f.	The Hershey Chase expe	riment provided evidence th	at was th	e genetic material.		

V Erwin Chargaff
http://fig.cox.miami.edu/~cmallery/150/gene/chargaff.htm

12.	2. What is the difference between a purine and pyrimidine?						
13. 14. 15. 16.	B. Adenine (A) pairs with						
17.	7. How many hydrogen bonds forms between A&T? C&G?						
18.	8. If an organisms genome consists of 10% thymine, what percent should be cytosine?						
	I Rosalind Franklin. tp://www.dnaftb.org/19/bio-3.html						
19.	19. What technique did Franklin use and improve?						
20.	20. What did she discover about the probable shape of DNA?						
21.	. What controversy surrounds Rosalind Franklin?						
VII	II James Watson and Francis Crick.						
<u>http</u>	tp://users.rcn.com/jkimball.ma.ultranet/BiologyPages/D/DoubleHelix.html#Watson_Crick						
<u>http</u>	tp://evolution.berkeley.edu/evolibrary/article/history_22						
22.	2. What did they receive the Nobel Prize for?						
23.	B. Describe the following parts of the DNA model proposed by Watson and Crick: a. Backbone:						
	b. Rungs:						