Na	ne:DNA History Webquest©
Fir ext	Friedrich (Fritz) Miescher  ://www.dnaftb.org/15/bio.html  d Miescher on the timeline and click on the bucket with the Red Cross to watch the animation. In 1869, he acted a substance from white blood cells that he called nuclein. What do you think he was actually acting?
II <u>.</u> htt	Frederick Griffith  p://simple.wikipedia.org/wiki/Griffith's_experiment
htt	://www.mun.ca/biology/scarr/Transformation Experiment.html
	fith'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		owing questions pertain to Avery ate whether they caused a transfo		d not cause a transformation			
(2.0	,,	<ul><li>a. RNA</li><li>b. DNA</li><li>c. Proteir</li></ul>	ns		Carbohydrate Lipids			
6.	6. In 1944, what did he discover that DNA is responsible for?							
		Hershey and Martly.thinkquest.org/TQ	ha Chase 00312650/hersheychase.htm					
http	://biolo	gy.clc.uc.edu/course	es/bio104/dna.htm					
http	://en.wi	kipedia.org/wiki/Fil	le:Hershey Chase experiment.p	ng				
7.	What a	What are bacteriophages?						
8.		tch a diagram of a bacteriophage in the space provided. Label the protein coat the DNA of the virus.						
9.	What effect does a bacteriophage have on E. coli bacteria?							
10.	In one a.		w bacteriophages in a culture wine phage was the 35S incorporate					
	b.	The phages were the coli?	hen allowed to infect E coli. Wh	ere was the 35S four	nd after mixing with the E.			
	c.		id Hershey and Chase make, bas					
11.	phages	her experiment, they were then allowed t	y grew bacteriophages in a cultur	e with radioactive p	•			
	e.	What conclusion d	id Hershey and Chase make, bas	ed on these results?				
	f.	The Hershey Chase	e experiment provided evidence	that was th	e genetic material.			

V Erwin Chargaff
<a href="http://fig.cox.miami.edu/~cmallery/150/gene/chargaff.htm">http://fig.cox.miami.edu/~cmallery/150/gene/chargaff.htm</a>

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