Name	DatePeriod					
	Heredity Web Quest					
	from the Beginning - Mendelian Genetics http://www.dnaftb.org/dnaftb/1/concept/index.html					
Read	en resemble their parents he text and answer the following questions How have useful traits been accumulated in plants and animals over the centuries?					
	Was there a scientific way to predict the outcome of a cross between two parents? Who determined that individual traits are determined by discrete "factors'? In what year?					
	4. These "factors" are now known as 5. Summarize what Mendel did?					
questi	n Animation at the bottom of the page. Move through the animation and answer the following ons. Why did Mendel work with pea plants?					
4.	e next question deals with how pea plants self-fertilize A) In the flower the male sex part is the B) What does it drop inside the immature flower? C) Name the female sex part? D) What are the sex cells that develop there? E) What fertilizes the eggs? F) Why do you think this is called self-fertilization? e next question deals with how pea plants cross-fertilize Summarize how cross-fertilization is accomplished?					
	Why is it different from self-fertilization?					
Self-fe	tilization Cross-fertilization					

lame ,	Period				
	Heredity Web Quest				
On the	e right menu bar click on number 2 "Genes come in pairs". Then at the bottom click on trion.				
Click t	hrough the animation and answer the following questions				
1.	What is a phenotype?				
2. What are the seven pairs of traits Mendel worked with in pea plants?					
	a b c d				
	a b c d e f g				
3.	Explain what Mendel reasoned from the existence of yellow and green seed colors				
1	What is an allala?				
4 .	What is an allele?What is a genotype?				
	If a pea plant has the two alleles YY. What is its phenotype?				
0.	What is its genotype?				
A n Cli	n the right menu bar click on number 3 "Genes don't blend". Then at the bottom click on nimation. Ick through the animation. What observations did Mendel make and what problem did he have to solve?				
An Cli the	the right menu bar click on number 4 "Genes don't blend". Then at the bottom click on nimation. Ick through the entire animation. Answer the following using the type of diagram that is found in animation				
1.	Diagram the cross & offspring between pure-bred green with pure-bred yellow.				

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3.	Diagram the cross between two heterozygous plants	s (Yy x Yy)
,	. ,,	
	the right menu bar click on number 5 "Gene inherita Animation.	ance follows rules". Then at the bottom clicl
	k through the animation.	
I. E	explain Mendel's law of segregation	
2. D	Oraw a Punnett square showing the heterozygous cro	oss of two yellow seeds Yy x Yy.
	ich genotype gives the green phenotype?	Which genotype gives the yellow
phe	ich genotype gives the green phenotype? notype? e an example from above that explains the 3 to 1 ro	

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Part 2 - Problem Sets & Tutoria Go to http://www.biology.arize		/mendelian_genetics.html
Take out a piece of scratch paper. tutorial. Good Luck!	Diagram the problem on a Punn	nett square before looking at the
Click on Monohybrid Cross. Do pr problem.	oblem set #1-13. Use the tutoric	al to help you understand the
Click on Dihybrid Cross. Do proble	em set #1-9. Use the tutorial to h	nelp you understand the problem.
Click on Sex-linked Inheritance I. E problem.	Oo problem set #1-10. Use the to	utorial to help you understand the