Genetics Layered Curriculum Lesson Plan -Name\_

Unit of Instruction:	Genetics				
Implementation Dates:		er 17 <sup>th</sup> -December 5 <sup>th</sup>			
Standards:	57L3a   ]	Explain the role of genes and chromosomes in the process of inheriting a specific trait.			
		cognize that selective breeding can produce plants or animals with desired			
Curriculum Layers		Student Unit Learning Activities	Pts	Er	
EVERYONE MUST DO ALL OF		1. Complete the Genetics Study Island Unit	100		
THESE		2. Assemble the Genetics Unit Portfolio with			
CHOOSE ENOUGH OF THE		assignments from below.	50		
FOLLOWING TO 51					
ARE PROFICIENT/A				ļ	
1st Layer : Basic knowledge, ♥		1. Make vocabulary flashcards for each vocabulary wor	1		
understanding. The student		2. Create a comic strip with 10 frames giving the	10		
builds on his/her current level of					
core information.		recessive traits (list of traits will be provided).			
Complete 2 assignments. Bloom's Taxonomy: Knowledge		<ol> <li>Complete a graphic organizer comparing genetic</li> </ol>	10		
		engineering & selective breeding.			
		4. Make an illustrated vocabulary book with genetics un	† 10		
		vocabulary.	10		
•		5. Write a song that teaches genetics vocabulary.	10 10		
		6. Draw a poster that explains Mendel's pea plant	10	-	
		experiment and how traits are passed down to			
		successive generations.	10		
		7. Draw a poster that explains how to create and use a	10		
		Punnett Square. Use genotypes, phenotypes & all			
<u> </u>		other genetic terminology.		+	
2nd Layer : Application or		1. Write a letter to a friend describing the differences	1.0		
manipulation of the information		selective breeding and genetic engineering	40		
learned in the 1st layer. Problem		2. Describe the importance of genetics and how it has	10		
solving or other higher level		changed the world. Write 2-3 paragraphs.	1.0		
thinking tasks.		3. Find 2 current event articles related to genetics;	10	İ	
Complete 1 assignment.		summarize them and give your opinion on the question	IS		
Bloom's Taxonomy: Application & Analysis		raised.		Ì	
, in the second of the second		4. Create a "super" animal. Combine traits of at least 3	10		
		animals that you believe would be considered			
		genetically superior.	م ا		
		5. Construct a 10-question quiz on genetics	10		
3rd Layer : Critical Thinking		1. Research a genetic disease. Provide information on	10		
and Analysis. This layer requires		<u> </u>			
the highest and most	•	linked is it a dominant or recessive disorder, are			
thought.		there any cures? Include your sources!			
Complete 1 assignment.		2. Create an ad campaign for a genetics counselor.	10		
Bloom's Taxonomy:		Include what services would be provided by the			
Synthesis & Evaluation		counselor and what benefits could they provide their clients.			
		3. Research the genetic engineering issue. Compare and	10		
		contrast genetic engineering. How can it benefit	10		
		society and how can it harm society. Present both			
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