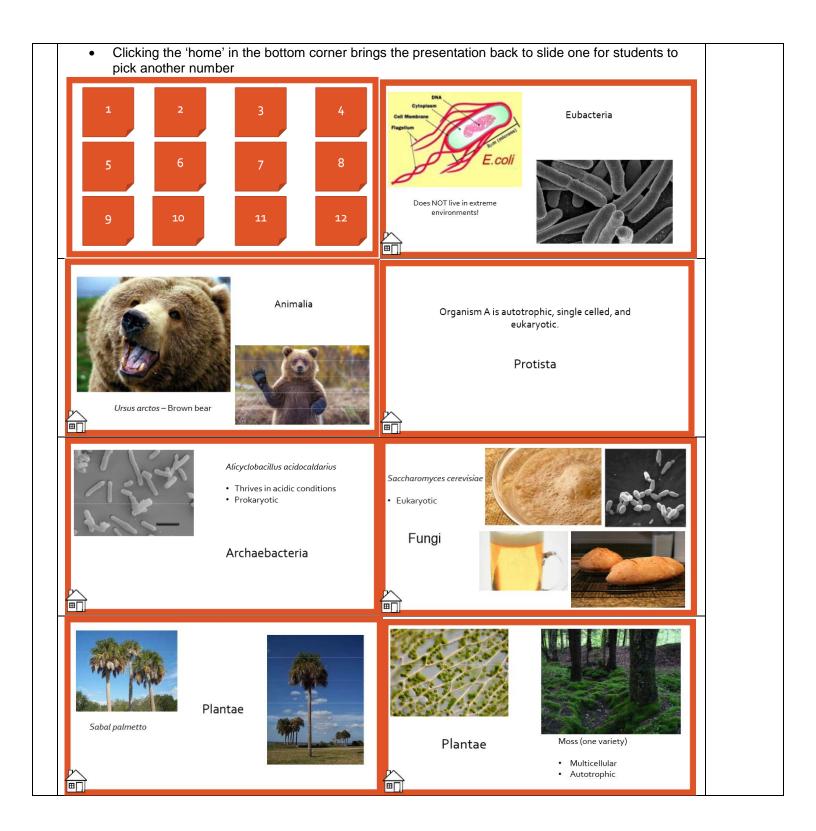
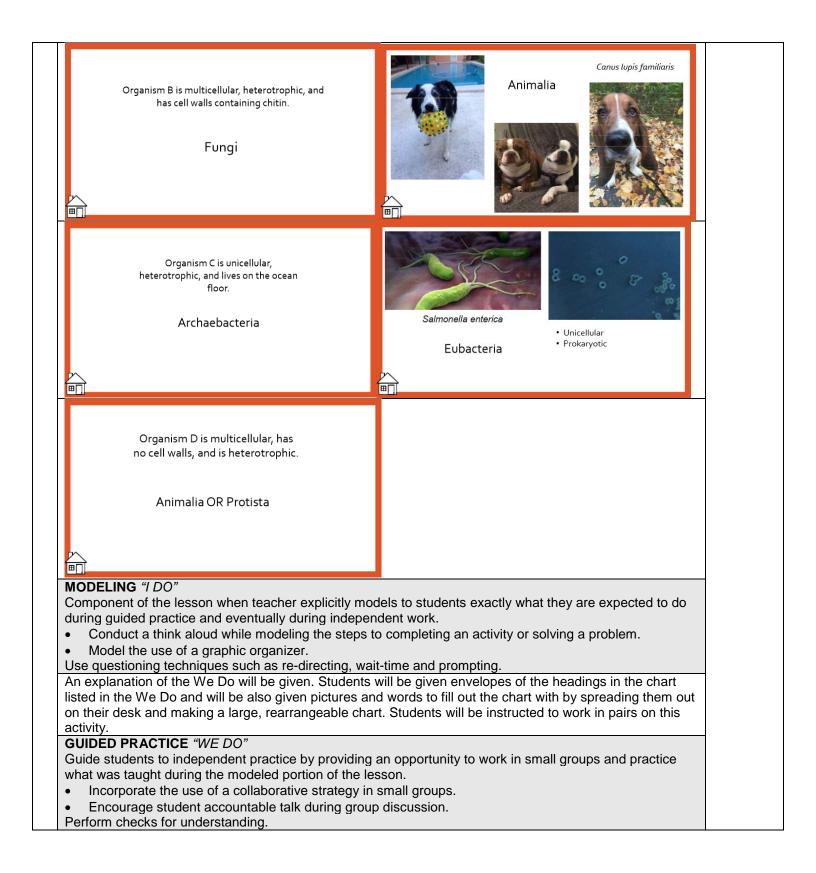
School:	Booker T. Washington	Subject:	Research	Teacher:	Lesson Plan Date:	

		DENOUNA DIZ						
	OBJECTIVE	BENCHMARK:						
	What will your students be able to learn? To understand how to classify organisms and create	(no pacing guide given for research)						
	cladograms	(no pacing guide given for research)						
	ASSESSMENT "Begin with the End in Mind"							
	How will you know whether your students have made progress toward the objective? How and when will you assess							
	mastery?	,						
	Students will exhibit proficiency in the subject when they are a							
	organism belongs to, as well as what characteristics determine		ngdom.					
Ū	Mastery will be assessed through participation in the exercise	as well as performance on the worksheet.						
Ę	SENTIAL QUESTION							
Ž	A higher order question that is directly derived from the benchmark, introduced at the beginning of the lesson, discussed throughout the lesson, and answered by students at the end of the lesson to show understanding of the concepts taught.							
PRE-PLANNING								
Ш	What characteristics allow us to classify organisms into kingdoms and how can we use them to create a cladogram?							
PR	HIGHER ORDER QUESTIONS (3-5) What questions will be answered to provoke higher order think	king and include Moderate to High ECAT Comp	lexity					
	What questions will be answered to provoke higher order thinking and include Moderate to High FCAT Complexity Levels? What would the ideal student response be for each question?							
	What would the ideal student response be for each question:     Why does science require classification systems like the one in place? (to allow us to keep track of all of the							
	species we have identified as well as help us to identify new organisms and the relationships between them)							
	<ul> <li>How can we use our knowledge of the kingdoms to compare two species? (the basic fundamental</li> </ul>							
	characteristics of the kingdoms allow us to make major comparisons between two organisms if they are in the							
	same species and allow us to view major differences i							
	<ul> <li>How do we decide what kingdom a newly identified sp</li> </ul>							
	characteristics of the organism as well as any markers	s of evolutionary relationships to previously ider	ntified					
	species) BELLRINGER		TIME					
	Follow the Focus Calendar to provide reinforcement of previo	usly taught skills	Approxim					
			ate					
	A slide containing the following questions will be projected on	the board for the students to copy the						
	answers to in their notebooks and answer within the first few r		10					
	1. What is the difference between a eukaryote and a pro		min					
ш	2. What is the difference between autotrophs and hetero							
Ū	3. We often think of plants when we hear the term cell w	all. What other type of organism do you think						
CYLCE	might contain cell walls in its cells?							
NO NO	Brief part of the lesson when students learn the objective/esse	optial quaction and how mactaring the	nk					
SO	objective leads to achieving the bigger goal of the course.	initial question and now mastering the						
SS	<ul> <li>Provide a hook to motivate students and link to prior know</li> </ul>	ledge in order to introduce a new concept						
Ш	<ul> <li>Explain the relevance of lesson and the importance of lear</li> </ul>							
	•	oduce important vocabulary using the word wall as an interactive learning tool.						
	Classification PowerPoint		25-30 min					
	Students choose numbers from the home slide which	leads to a respective slide						
	Each slide contains information on an organism that g	•						
	the kingdom							
	The name of the kingdom remains revealed until corre	ectly guessed and then is animated to enter						
	the screen							





	eterotrophic or Autotrophic	Unicellular or Multicellular	Eukaryotic or Prokaryotic?	Cell Wall? O	Method of btaining Nutrition	Examples of Organisms
Animalia						
Slantas						
Plantae						
Fungi						
T ONG						
Archaebacteria						
Archaebacteria						
- hardenia						
Eubacteria						
Protista						
Heterotrophic	Multicellular	Eukaryotic	No	Ingestion		>
					Insects	
Autotrophic	Multicellular	Eukaryotic	Yes, made of cellulose	Photosynthesis		
						Dandelion
Heterotrophic	Multicellular	Eukaryotic	Yes, made of	Decaying material		
			chitin	occo, ing inotenio		
			chitin		Mold	<b>WEIGenauthin</b>
Both	Unicellular	Prokaryotic		Varies	Mold	Found in extreme
		Prokaryotic	chitin Yes	Varies	Mold	Found in extreme conditions
Both Both	Unicellular Unicellular		chitin			extreme conditions
Both	Unicellular	Prokaryotic	Chitin Yes Yes	Varies Varies	-	extreme conditions
		Prokaryotic	chitin Yes	Varies	-	extreme conditions

COLLABORATIVE PRACTICE "THEY DO"	
Guide students to independent practice by providing an opportunity to work in small groups and practice	
what was taught during the shared portion of the lesson.	
Incorporate the use of a collaborative strategy in small groups.	
Circulate throughout the room and provide guidance to each group as needed.	
Following an approval of their answers, students will now copy the chart they have produced into their	
notebooks to keep for reference.	
INDEPENDENT PRACTICE "YOU DO"	
Differentiate your instruction to reach the diversity of learners in your classroom.	
• Assign students independent work that is directly aligned with the "I Do" and "We Do" portions of the	
lesson.	
Conduct Center Rotations	
Circulate around the room to provide individual support.	
Pull small groups or individuals for more intensive support.	
Students will now be given two of the kingdoms to compare and create a Venn diagram comparing and	
contrasting them. Diagrams will be drawn both on whiteboards and in the students notebooks. Following	
the creation of the charts, students will get up in front of the class and present their work as well as	
compare their work with other pairs that share similar kingdoms.	
CLOSURE	
Wrap up the lesson and help students organize the information learned into a meaningful context.	
Have students reflect on or answer the Essential Question.	
Help students connect today's learning to their bigger goal in the course.	
Following the presentations, we will have a short discussion as to why the establishment of kingdoms	
allows us to make these comparisons so easily. We will once again summarize the main characteristics	
that are considered when placing a species into a kingdom, and how useful classification as a whole is a	
useful and necessary system to science.	
HOME-LEARNING	
How will students practice what they learned? How will opportunities be provided for students to	
maintain mastery of previously mastered skills/concepts?	
Students will review their two charts at home to recall the characteristics of the kingdoms and can use the	ne
main table frequently as a reference, especially when preparing for the next assessment.	