Lesson P	lan Template
Grade: Middle School	Subject: Life Science- Evolution
Materials: Internet	Technology Needed: Computers or Tablets
Instructional Strategies: Direct instruction Guided practice Socratic Seminar Learning Centers Lecture Technology integration Other (list) Peer teaching/collaboration/ cooperative learning Visuals/Graphic organizers PBL Discussion/Debate Modeling	Guided Practices and Concrete Application: Large group activity Hands-on Independent activity Technology integration Pairing/collaboration Imitation/Repeat/Mimic Simulations/Scenarios Other (list) Explain:
Standard(s)	Differentiation
Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to inferevolutionary relationships. Objective(s) Students will be able to apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern fossil organisms by creating a phylogenetic tree to infer evolutionary relationships.	Above Proficiency: Students will understand and complete the 3 phylogenetic tree activities and move onto the next level in the game with the extra time they have. Approaching/Emerging Proficiency: Students will be able to complete and understand the 3 phylogenetic tree activities. Modalities/Learning Preferences:
Bloom's Taxonomy Cognitive Level: Apply and Analyze	
Classroom Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to
We will be starting as a large group, then transitioning to lab stations and each student will need to get a tablet for our activity. When the activity is over, students will need to safely put the tablets back before class is dismissed.	the lesson, rules and expectations, etc.)
Minutes Procedures	
(I am using this lesson as a "Part One" and my other Phyl practice correctly making small phylogenetic trees and se	or learning / stimulate interest /generate questions, etc.) logenetic Tree lesson as "Part Two". This way students get a chance to eeing how they connect to evolution before creating their own) bout their own families. I will either use my own family tree or have student
	Te and how we can trace and understand the connectiveness of all life. We rough phylogenetic trees. I will introduce the online lab they will be doing.

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I will also have "KEY WORDS" on the white board with definitions and examples for students to refer to if necessary. There are a couple words students will come across in the game that we will likely have not covered such as autotroph, heterotroph, and amniote.	
Explore: (independent, concreate practice/application wit experiences, reflective questions- probing or clarifying qu	th relevant learning task -connections from content to real-life estions)
https://www.pbs.org/wgbh/nova/labs/lab/evolution/	
three phylogenetic trees for them to complete. Each level go information about the species they will be sorting. Although	tablet/computer to play the first game titled: Training Trees. There are gets a little harder. The game provides directions, hints, and additional heach student will be playing the game individually, the students will be students play the game, I will have them draw and label their completed
To end the activity, students will fill out a short assessment	question and turn it in as an exit slip.
Review (wrap up and transition to next activity):	
In the last 7 minutes of class we will pack up the laptops, we will discuss as a class our findings, and I will briefly explain that tomorrow we will be creating and solving a big phylogenetic tree. Students will submit exit (assessment!) slip and leave.	
Formative Assessment: (linked to objectives)	Summative Assessment (linked back to objectives)
Progress monitoring throughout lesson- clarifying questions, check-	End of lesson:
in strategies, etc.	Exit slip
I will be monitoring students' progress while walking around classroom and asking questions. Also the work they do will be copied into their lab notebooks.	If applicable- overall unit, chapter, concept, etc.: Summative test at the end of the unit.
Consideration for Back-up Plan:	
If students run out of time, they can also screen shot their results and either print them off, or draw them later.	
Reflection (What went well? What did the students learn? How do you know? What changes would you make?):	