Lesson Plan - Math

Grade: 10 S		Subject: Mathematics
Materials: My own computer		Technology Needed: Computers
InstructionXDirectXGuideSocrationLearnLearnLecturXTechrOther	al Strategies:instructionXPeer teaching/collaboration/ cooperative learningd practicecooperative learningtic SeminarVisuals/Graphic organizersing CentersPBLreDiscussion/Debatehology integrationModeling• (list)•	Guided Practices and Concrete Application: Large group activity Hands-on X Independent activity Technology integration X Pairing/collaboration Imitation/Repeat/Mimic Simulations/Scenarios Other (list) Explain: Explain:
Standard(s) HS.F-BF.5* Understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents. Objective(s)		Differentiation Below Proficiency: Individual work – 1-on-1 Above Proficiency: Complete remainder of worksheet Approaching/Emerging Proficiency: Working with partners to finish worksheet
Bloom's Taxonomy Cognitive Level: Comprehension		Modalities/Learning Preferences: Visual/Spatial, Logical/Mathematical, Interpersonal
Classroom Management- (grouping(s), movement/transitions, etc.) Standard classroom procedures for using computers: single-file line, sign computer out, log in to school account, other websites are blocked		Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) Students should not be doing anything on the computer but their homework unless they're done, at which point they are expected not to be disruptive with what they do or they lose their computer privileges.
Minutes	Procedures	
5	Set-up/Prep: Computers are needed; otherwise, standard classroom materials	
5	Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Review logarithmic properties on <i>Investigative</i> worksheet -Addition (Multiply) -Subtraction (Divide) -Multiplication (Power)	
25 Explain: (concents, procedures, vocabulary, etc.)		
	Today we are using <i>Kahoot!</i> To review logarithmic properties and example problems. We will use <u>https://create.kahoot.it/details/properties-of-logarithms/7765ab9e-c3da-49a9-a11f-8973184b9e0c</u> to review. For each problem, I will take a couple of minutes to explain each solution in detail. The last two problems will require a little more detail to work through.	
10	Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Once we have worked through <i>Kahoot!</i> , I will prompt them by telling them that we did some of the examples from the packet they have. They now have time to themselves to work on the packet questions and practice. Mr. Walsted and I will be available to help them with any questions they may have.	
5	Review (wrap up and transition to next activity): Pose an equation to them. $4^x = 11$. We will learn how to solve this equation tomorrow.	
Formative Assessment: (linked to objectives) Summative Assessment (linked back to objectives)		
Progress	monitoring throughout lesson - clarifying questions, check-	End of lesson:
in strategies – "Can someone repeat back to me what I just said?"		Class average on Kahoot! Quiz – did they retain what they learned
Gradual progress through Kahoot!		yesterday?
Consideration for Back-up Plan:		If applicable- overall unit, chapter, concept, etc.:
If technology fails, I can write the problems on the board and we can		There will be a test on logarithms within the current unit.
play competitive games during class.		
Reflection	(What went well? What did the students learn? How do you l	know? What changes would you make?):