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| **Standard(s)**: AA.MM.1 Apply mathematics to real-life situations; model real-life phenomena mathematics.AA.MP.1-5 Display perseverance and patience in problem-solving. Demonstrate skills and strategies needed to succeed in mathematics, including critical thinking, reasoning, and effective collaboration and expression.AA.FGR.3: Explore and analyze structures and patterns for exponential and logarithmic functions and use exponential and logarithmic expressions, equations, and functions to model real-life phenomena.**Assessment: ☐ Quiz ☐ Unit Test ☐ Project ☐ Lab ☐ None** |
|  | **Pre-Teaching***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* **Learning Target** **Success Criteria 1** **Success Criteria 2** | **Activation of Learning***(5 min)* | **Focused Instruction***(10 min)****\*I DO*** | **Guided Instruction***(10 min)****\*WE DO*** | **Collaborative****Learning***(10 min)****\*Y’ALL DO*** | **Independent Learning***(10 min)****\*YOU DO*** | **Closing***(5 min)* |
| * Do Now
* Quick Write\*
* Think/Pair/Share
* Polls
* Notice/Wonder
* Number Talks
* Engaging Video
* Open-Ended Question
 | * Think Aloud
* Visuals
* Demonstration
* Analogies\*
* Worked Examples
* Nearpod Activity
* Mnemonic Devices\*
 | * Socratic Seminar \*
* Call/Response
* Probing Questions
* Graphic Organizer
* Nearpod Activity
* Digital Whiteboard
 | * Jigsaw\*
* Discussions\*
* Expert Groups
* Labs
* Stations
* Think/Pair/Share
* Create Visuals
* Gallery Walk
 | * Written Response\*
* Digital Portfolio
* Presentation
* Canvas Assignment
* Choice Board
* Independent Project
* Portfolio
 | * Group Discussion
* Exit Ticket
* 3-2-1
* Parking Lot
* Journaling\*
* Nearpod
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| **Monday 10-21-24** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*I’m going to change the base formula on a logarithm I can change the base formula on a logarithm | Bell-ringer/Do Now ActivityWhat do you know remember about working with logarithms from last week?Students will be introduced to changing the base formula on a logarithm | Work Examples andVisuals Base formula/logTeacher will give examples of how to change the base formula. | Guided notes/video/Power pointBase formula/log Students will take notes on changing the base formula/log | Practice ProblemsThink/Pair/Share, Discussions Base formula/log Students will have an opportunity to work with partners. | Practice Handout/worksheetBase formula/logStudents will work individually on practice problems. | Group Discussion/Exit TicketBase formula/logWhat did you learn about changing the base formula on a logarithm? |
|  **Tuesday 10-22-24** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*I’m am learning to identify natural logarithms I can identify natural logarithms.   | Bell-ringer/Do Now ActivityAre there any questions about base formula from yesterday’s lesson? | Work Examples andVisuals Natural logarithms Teacher will give examples of how to identify Natural logarithms. | Guided notes/video/Power pointNatural logarithms  Students will take notes on Natural logarithms  | Practice ProblemsThink/Pair/Share, Gallery Walk, Discussions Natural logarithms  Students will have an opportunity to work with partners. | Practice Handout/worksheetNatural logarithms Students will work individually on practice problems. | Group Discussion/Exit TicketNatural logarithms What did you learn about Natural logarithms? |
| **Wednesday 10-23-24** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* I’m going to review what I have learn thus far about logarithms.I can show what I have learn thus far about logarithms. | Bell-ringer/Do Now ActivityStudents will recall/list at least 5 things they remember learning thus far about logarithms. | Work Examples andVisuals Teacher will review and give examples of standards learned thus far about logarithms | Guided notes/video/Power pointStudents will review and/or add on to previous notes taken about logarithms to prepare the quiz. | Practice ProblemsThink/Pair/Share, Discussions Students will have an opportunity to work with partners to review, discuss. to solve/calculate practice problems to prepare for the quiz on logarithms | Practice Handout/worksheetNormal distribution and bell curve.Students will work individually on practice problems. | Group Discussion/Exit TicketDid you learn any new skill/standard from the reviewing for the quiz?Do you still have questions about logarithms? |
| **Thursday 10-24-24** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* I’m going to review what I have learn thus far about logarithms. I can show what I have learn thus far about logarithms. | Bell-ringer/Do Now ActivityStudents will recall/list at least 5 things they remember learning thus far about logarithms. | Work Examples andVisuals Teacher will review and give examples of standards learned thus far about logarithms  | Guided notes/video/Power pointStudents will review and/or add on to previous notes taken about logarithms to prepare the quiz. | Practice ProblemsThink/Pair/Share, Discussions Students will have an opportunity to work with partners to review, discuss. to solve/calculate practice problems to prepare for the quiz on logarithms | Practice Handout/worksheetStudents will work individually on practice problems. | Group Discussion/Exit TicketDid you learn any new skill/standard from the reviewing for the quiz?Do you still have questions about logarithms? |
| **Friday 10-25-24** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* I’m going to assess my knowledge of logarithms I can assess my knowledge of logarithms | Bell-ringer/Do Now ActivityAre there still questions about what we learned thus far about logarithms?Q & A session about logarithms before the assessment begins. | Work Examples and Visuals Students will be given the logarithms quiz.Students can use their notes and a calculator. | Guided notesStudents can use their notes and a calculator for the quiz. | Practice ProblemsStudents can use their notes and a calculator for the quiz. | Practice HandoutStudents can use their notes and a calculator for the quiz. | Group Discussion/Exit TicketStudents will turn in their completed quiz |

*\*key literacy strategy*