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| **SEV1; .**a. Develop and use a model to compare and analyze the levels of biological organizationincluding organisms, populations, communities, ecosystems, and biosphere.b. Develop and use a model based on the Laws of Thermodynamics to predict energy transfersthroughout an ecosystem (food chains, food webs, and trophic levels).(Clarification statement: The first and second law of thermodynamics should be used . |

**ssessment: ☐ 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**  | **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
 | * Call/Response
* Probing Questions
* Graphic Organizer
* Digital Whiteboard
 | * Discussions\*
* Expert Groups
* Labs
* Stations
* Think/Pair/Share
* Create Visuals
 | * 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** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* **Learning Target:****I am learning about the levels of biological organi0sation** **Success Criteria ; I can explain about organissation ,population, communities and ecosystem**  | Do Now: Questions on the whiteboard. | **Demonstration on The levels of biological organization.** | Students will respond to the probing questions. | Group discussion | Quizzes | TOTD |
| **Tues day** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* **Learning Target: I am leartransfers from one trophic level to an other trophic leval** **Success Criteria 1:Ican how the energy transfers through food chain, food web, and different trophc levels** | Do Now: Questions on the whiteboard. | Demonstration on How the energy transfers throughout the ecosystem(Laws of thermodynamics) | Students will respond to the probing questions. | Students will work in pairs to complete by drawing different food chains and pyramids | Written Responses | TOTD |
|  **Wednesday 3** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* **Learning Target :BIOGEOCHEMICAL CYCLE**  **Success Criteria 1: I can explain about hydrogen cycle and oxygen cycle are relate to the ecosystum** | Do Now: Questions on the whiteboard. | Demonstration on  ***BIOGEOCHEMICAL CYCLES(hydrogen cycle ,oxygen cycle)*** | Students will respond to the probing questions. | **Think/pair/share** | Students will give some graphic reprasentations of d0ifferent cycles of hydrogen and o2 cycles. | TOTD |
| **Thurs Day** | *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp* **Learning Target:****I am learning about BIOGEOCHEMICAL CYCLES.** **Success Criteria 1: I can explain about the sequential steps in NITROGEN CYCLE relating to the ecosystem** | Do Now: Questions on the whiteboard. | **Demonstration on** NITOGEN CYCLE in a sequential manner. | Students will respond to the probing questions. | **Created visuals on NITROGEN CYCLE** | Quizzes practice  | TOTD |
|  **Friday** | **Review on weeks Lessons** | Warm Up: question | Review concepts of the week | QUIZ on **The** BIOLOGICAL ORGANISATION and BIOGEOCHEMICAL CYCLES | QUIZ CONTINUED | QUIZ CONTINUED | QUIZ CONTINUED |