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| Standard and Objective | Essential Questions | Got it. | Al-most | Not yet |
| **STANDARD II: Students will understand that all organisms are**  **Composed of one or more cells that are made of molecules, come**  **from preexisting cells, and perform life functions.** | |  |  |  |
| **Objective 3:** Investigate the structure and function of cells  and cell parts. | a. Explain how cells divide from existing cells. (7) |  |  |  |
| b. Describe cell theory and relate the nature of  science to the development of cell theory. (3) |  |  |  |
| c. Describe how the transport of materials in and  out of cells enables cells to maintain homeostasis.  (3) |  |  |  |
| d. Describe the relationship between the  organelles in a cell and the functions of that cell.(4) |  |  |  |
| e. Experiment with microorganisms and/or plants  to investigate growth and reproduction. (3) |  |  |  |

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| **Objective 2:** Describe the  flow of energy  and matter in  cellular function. | a. Distinguish between autotrophic and  heterotrophic cells. (3) |  |  |  |
| b. Illustrate the cycling of matter and the flow of energy through photosynthesis and respiration (8) |  |  |  |
| c. Measure the production of one or more of the products of either photosynthesis or respiration. (3) |  |  |  |