|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| M. Angileri | **6th grade science** | | **Lesson Plans 9-16-19 Introducing the Scientific Method (2)** | | | | |
| NGSS Standards | **MS-**  **ETS1-1.**  **MS-ETS1-2.**  **MS-**  **ETS1-3.** | | **Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.**  **Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.**  **Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.** | | | | |
| Vocabulary: | | **Scientific Method**: A logical step by step way of solving a problem in science.  **Purpose:** a reason for doing something or existing.  **Procedure**: a series of steps in a definite order, showing how something is done.  **Research**: the collecting of information about a particular subject.  **Experiment** – scientific investigation performed to answer a question or solve a problem.  **Hypothesis**: an educated guess.  **Demonstrate**: to show or prove something clearly by showing examples or evidence. | | | | | |
|  | | **MONDAY** | | **TUESDAY**  ½ day | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| Content Objective: | | Students will demonstrate application of the scientific method by carrying out The Great Paper Towel Experiment. | | SW demonstrate comprehension of the scientific method by summarizing information on a study Guide. | SW demonstrate evaluation of science content by NWEA testing. | SW demonstrate evaluation of science content by NWEA testing. | SW demonstrate knowledge of the development of cell theory by stating how the increase in technology and the sharing of ideas lead to today’s understanding. |
| Language objective | | SW write to make connections between the scientific method principles and their design to work with team members using complete sentences. | | SW give feedback about the scientific method using sentence starters from the study guide. | SW answer questions about scientific content using the NWEA testing site. | SW answer questions about scientific content using the NWEA testing site. | SW paraphrase information from “discovering Cells” using sentence frames. |
| In class today | | The Great Paper Towel Experiment  Analyze and apply steps of scientific method.  Study Guide for SM test | | Correct SG for Scientific Method Test  Procedures for using Chromebooks | NWEA: Day 1 | NWEA Day 2 | Scientific Methods Test  What is Cell Theory and Scientist who helped to develop it |
| Learning Target | | I can apply the scientific method principles to experiment with the Great Paper Towel Experiment  investigation. | | I can demonstrate my knowledge of the scientific method using the study Guide. | I can answer science questions 1-25 on the NWEA to the best of my ability. | I can answer science questions 26-45 on the NWEA to the best of my ability to match or beat my spring score. | I can discuss cell theory, the scientists who developed it and the importance of sharing ideas to further advances in scientific understanding. |