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| 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 ExperimentAnalyze and apply steps of scientific method.Study Guide for SM test | Correct SG for Scientific Method TestProcedures for using Chromebooks | NWEA: Day 1 | NWEA Day 2 | Scientific Methods TestWhat 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 Experimentinvestigation. | 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.  |