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| M. Angileri | **6th grade science** | | **Lesson Plans 9-18-17 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** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| Content Objective: | | Students will demonstrate knowledge of STRONG passwords and the Scientific Method by identifying attributes of each on a graphic organizer. | | Students will demonstrate application of STRONG passwords by constructing their own password. | Students will demonstrate application of the scientific method by carrying out the Come Fly me investigation.  Begin Analysis | Students will demonstrate analysis of their come fly with me investigation to distinguish aspects of the experiment as it relates to the scientific method. | Students will demonstrate evaluation of the Scientific Method processes by taking a quiz and completing a cloze activity. |
| Language objective | | SW ask orally questions about STRONG passwords and the scientific method using the graphic organizers. | | SW write to record their official STRONG password. | SW orally make connections between the scientific method principles and their design to work with team members using complete sentences. | SW write to critique the Come fly with me activity and the scientific method using sentence starters. | SW write to respond to questions about the Scientific Method processes questions and sentence frames. |
| In class today | | Missing work update  How to make a STRONG password.  Scientific Method Foldable | | Computer assignment  Student log in and password creation  Complete: Scientific Method Foldable | Review S.M. Conduct investigation” Come Fly with Me”  Analyze results | Discuss results  Review  Bikini Bottom Experiment | Brain Pop: Scientific Method and quiz  Scientific Method cloze activity |
| Learning Target | | I can identify attributes (examples) of STRONG passwords. | | I can carry out the procedures for creating and recording my STRONG password. | I can apply the scientific method principles to experiment with the come fly with me investigation. | I can evaluate my work and the work of others in the come fly with me activity. | I can evaluate my understanding of the scientific method processes. |