Ms. Whiteley

Integrated Science

Unit #1 Syllabus **Scientific Inquiry**

August 13th & 14th Introductions!

 “Science and Summer” Response Paper

 Discussion: Rules and Expectations

 Activity: The Great Marshmallow Challenge

 **HW: Signed Rules and Expectations due 8/15, 8/18**

August 15th & 18th Warm-Up: Marshmallow Problems and Successes

 Activity: Solve the “T”

 Library Time, Classwork: Textbook Exploration

August 19th & 20th Warm-Up: Logical Thinking

Assessment: Scientific Inquiry Pre-Test

 Core Activity!!

August 21st & 22nd Warm-Up: Observations vs. Inferences

 Demonstration: The Burning Candle

 Class Notes: Scientific Method

 Classwork: Writing a Hypothesis

 **HW: Bring in a cardboard toilet paper tube, due 8/25, 8/26**

August 25th & 26th Warm-Up: Choose a Hypothesis

 Worksheet: Forming and Testing a Hypothesis

 Class Notes: Experimental Design

 Activity: Identify the Variables

 **HW: Chapter 1 Review, Key Concepts 1-8, Review ?s 1-7 Due 27th, 28th**

August 27th & 28th Warm-Up: Independent vs. Dependent Variables

 Class Notes: Qualitative vs. Quantitative Data

 Activity: Building the Mystery Tube!

 Wrap-Up: Analysis of Experimental Design

August 29th & Sept.2nd Warm-Up: Data Analysis

 Class Notes: Scientific Law, Theory

 Activity: People Hunt

 Lab Equipment Identification and Safety Contract

 **HW: Study for Quiz #1: Scientific Method 9/3, 9/4**

September 3rd & 4th **Quiz #1**

Class Notes: Introduction to Metric Units

 Activity: Using Metric Units

 Worksheet: Solving Metric Problems

September 5th & 8th Warm-Up: Metric Conversions

 Laboratory Investigation: Metric Measurement

 Class Analysis: Graphing Arm-Length

September 9th & 10th Warm-Up

 Activity: Bats vs. Bacteria

 Worksheet: Practice Graph, Student Data

September 11th & 12th Warm-Up

 Laboratory Investigation: Is That a Fact?

 **HW: Unit#1 Study Guide, Prepare for Unit Exam!**

September 15th & 16th Warm-Up: Scientific Inquiry Review

 **Unit #1 Exam, Binder Check!**