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!**