**Mechanics of a Rocket  
Mentoring Project  
100 points**

**10 points**

\_\_\_\_\_\_\_\_\_\_\_ The poster board is visual entertaining.

\_\_\_\_\_\_\_\_\_\_\_ The language of the poster board is geared towards 6th grade students.

**20 Points**

All of the words, as well as definitions of the words, are included on the poster board. (3 points each)

\_\_\_\_\_ Force

\_\_\_\_\_ Newton’s Third Law

\_\_\_\_\_ Momentum

\_\_\_\_\_ Mechanical Energy

\_\_\_\_\_ Kinetic Energy

\_\_\_\_\_ Potential Energy

\_\_\_\_\_ Altitude

\_\_\_\_\_ Range

**20 points**

All of the steps, as well as explanations of the steps, are included on the poster board. (3 points each)

\_\_\_\_\_\_ Identify the Problem

\_\_\_\_\_\_ Brainstorming

\_\_\_\_\_\_ Design

\_\_\_\_\_\_ Build

\_\_\_\_\_\_ Test/Evaluate

\_\_\_\_\_\_ Redesign

\_\_\_\_\_\_ Share the Solution

**25 points**

\_\_\_\_\_\_\_ Middle School (Day 1) **Actively Participated** in teaching the science behind the water rocket as well as **Mentoring** the students as the create their own design notebook and build their rocket.

\_\_\_\_\_\_\_ Middle School (Day 2) **Actively Participated** in **constructively** assisting their groups as they launch their rockets at least 20 m in range.