

**S 4: SLO 4**

Demonstrate comprehension of various conservation laws and their importance.

**Related Measures****M 2: Standardized test**

A nationally validated test will be used to measure outcomes 2-6. This is a research based tool developed to specifically evaluate student conceptual understanding of physical science principles. Local scores will be compared to the national average.

Source of Evidence: Standardized test of subject matter knowledge

**Achievement Target:**

The test will be administered pre/ post instruction and the normalized gain will be calculated using the following formula:  $(\text{post-pre})/(20\text{-pre})$ . The national average is 40%. Researchers have agreed that a gain of 60% and above represents mastery. To align with national standards we expect our students to perform at least at the national average level.

**Finding (Spring 2012) - Achievement Target: Met**

21/38=56%

**Finding (Fall 2012) - Achievement Target: Met**

20/35= 57%

**Finding (Fall 2011) - Achievement Target: Met**

Out of 46% students measured, 60% met the criteria.

**Finding (2010-2011) - Achievement Target: Met**

Out of 97 students measured, 48% met the criteria.