

CWSF 2012 - Charlottetown, Prince Edward Island



Raise it to a Boil! Calculating Calories

Challenge: Innovation

Category: Junior

Region:

City: ,

School:

Abstract: The purpose of my experiment was to see if I could accurately calculate the caloric value (per gram) of four different dry snacks using a Homemade Can Calorimeter, and therefore accurately determine which food contained the most stored energy within its chemical bonds. I calculated the caloric value of the foods by measuring the change in temperature of 200g of water above a burning food.

| Awards | Value |
|---|---------|
| Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada | \$700 |
| Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University | \$2 000 |
| Total | \$2 700 |