

## CWSF 2012 - Charlottetown, Prince Edward Island



### Refraction Action

**Challenge:** Health

**Category:** Intermediate

**Region:**

**City:** ,

**School:**

**Abstract:** I am measuring the sugar content in liquids using the refraction of a light beam that travels through a prism with a liquid inside. I am doing this by calculating its refraction index, known as the ratio of the change of the speed of light, using Snell's Law,  $n_i \sin(A_i) = n_r \sin(A_r)$ . When sugar is within the 2 mediums, the sugar causes the light to refract more horizontally.