**Snell’s Law Lab**

**Problem:**

**How can you use the data from the “plastic box” lab to calculate the index of refraction of water?**

**Material: Plastic Box, water pins.**

**Data:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Angle of incidence** | **Angle of Refraction** | **Index of Refraction** | **% Error** |
| **Water** |  |  |  |  |

**Be sure to calculate the Index of refraction and % error.**

**Actual Index of refraction for water : 1.33**

**Conclusion: use the following terms: Snell’s Law, Refraction, Normal, Index of Refraction, Angle, medium, air, water and Sine.**