Online PhET Lab - Refraction of Light

II. Builton-disactions

In this activity you will be investigating here light is best at the boundary between two materials and relat determines the amount of boundary. You will be using one of the simulations from PATT betweether filmulations. The simulation is called Branking Light (HTMLs). This is the link for the simulation. Intgo://linguistics.html//Bpatechik. For this activity you will use the Moore Tools window. Knop the surveingth of the light at this som.



Minneyer, Transplan

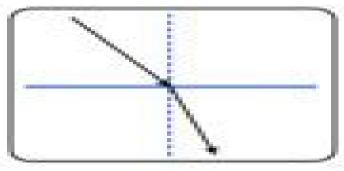
Vacabulary: institute may, refracted may, angle of incidence, angle of refraction, angle of reflection, index of refraction, critical angle, total intertail reflection, indexpity

(x) The diagram below shows the path of a my of light as it travels through air, across the airwater boundary, and through the water. Sellar main; the simulations label the following items on the diagram:

- all the six-water beautidary with a B.-
- b) the corresponding with an No.
- a) the incident ray with up It.
 if) the refracted ray with as It.
- of the analy of incidency with a m.
- to post entitle out measurement active in er-
- It's the angle of retraction with a \$6.

III. Refraction, The Bending of Light

Brithweitjem in the frendling of light as it powers, at an angle, from a material with one-index of refraction to a material with a different index of refraction. In the following investigations prowill be replicing the factors that affect the refraction of light.



Decreeffiguition No. 1

Not the indices of refraction to that they are the same for both materials. Measure the angle of refraction for the following angles of incidence. Enter your chosen indices of refraction below.

Epoles of refraction; top material:

Index of optraction bottom material:

ample of incidence (w)		307	407	80"	867
angle of refeaction (33)					



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