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# Ocean Studies Investigation Manual Edition 9 Answers

**Scott C. Dulebohn**



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web the refractive index tells you the speed of light in a given material it is defined as  $n = c/v$  where  $c$  is speed of light in vacuum and  $v$  is velocity of light in the material the refractive index is used in not defined by snell's law which relates the angle of incidence to the angle of refraction when light passes from one material into

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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is  $60^\circ$  and the refraction angle is  $35^\circ$  from snell's law  $\sin \theta_1 / v_1 = \sin \theta_2 / v_2$  then  $\sin 35^\circ / v_2 = \sin 60^\circ / v_1$  and the speed of light in the block is  $2.0 \times 10^8$  m/s the frequency of the light does not change upon refraction

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