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what we want to cover in this video is when the light actually doesn't just bounce off of a surface but starts going through a different medium so in this situation we will be dealing with refraction refraction refraction you still have the light coming in to the interface between the two surfaces the second edition of theory and practice of optics and refraction has been thoroughly revised and updated keeping in mind the tremendous advances which have occurred in the field of optics when a ray of light encounters an interface between two transparent media a portion of it is reflected and a portion is refracted and it is natural to ask even during an early introduction to the subject just what fraction is reflected and what fraction is refracted light reflection refraction physics light rays change direction when they reflect off a surface move from one transparent medium into another or travel through a medium whose composition is continuously changing the changing of a light ray's direction loosely called bending when it passes a boundary between materials of different composition or between layers in single material where there are changes in temperature and density is called refraction refraction and the ray model of light the ray nature of light is used to explain how light refracts at planar and curved surfaces snell's law and refraction principles are used to explain a variety of real world phenomena refraction principles are combined with ray diagrams to explain why

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usually describes the behaviour of visible ultraviolet and infrared light ripple tank demonstrations are commonly done in a physics class in order to discuss the principles underlying the reflection refraction and diffraction of waves reflection of waves if a linear object attached to an oscillator bobs back and forth within the water it becomes a source of straight waves to describe the valuable role of trained oas and patient counselors in outpatient and refraction departments operating theatres wards and patient counseling to illustrate ways for existing programmes to increase their volume quality and sustainability through the development and utilization of paramedical personnel optics and refraction video primer a free video primer for learning basic optics and refraction basic optics such as the definitions of vergence and diopter and how lens power is defined refraction subjective refraction and objective refraction using a retinoscope and phoropter extras

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