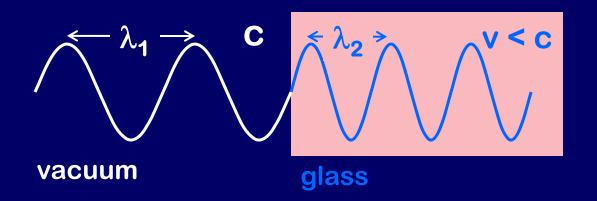
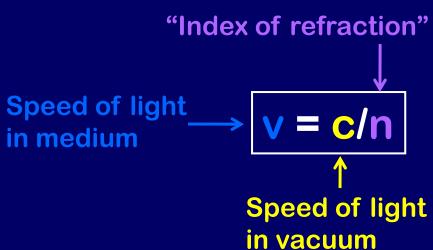
Index of Refraction

Recall speed of light $c = 3x10^8$ m/s is in vacuum In a medium (air, water, glass...) light is slower



Frequency is the <u>same</u>, wavelength <u>decreases</u>

$$c = \lambda / f$$



n is a property of the medium:

$$n_{vacuum} = 1$$
 $n_{air} = 1.0003$
 $n_{water} = 1.33$
 $n_{glass} = 1.50$

