

## Optics 1

1. Calculate the frequency of the yellow colour ( $\lambda = 600 \text{ nm}$ ) in the visible light spectrum.
2. What refraction angle has a light ray, entering from air into water under the incident angle  $60^\circ$ ? The value of the refraction index for pure water is 1.33.
3. A light ray hits the surface of glass. What is the value of the incidence angle, when the angle between the refracted and reflected ray ( $\gamma$ ) is  $60^\circ$ ? The value of the refraction index for glass is 1.52.

HW: Find the angle of reflection, when a light ray hits a planar surface of water with an incidence angle  $43^\circ$ .