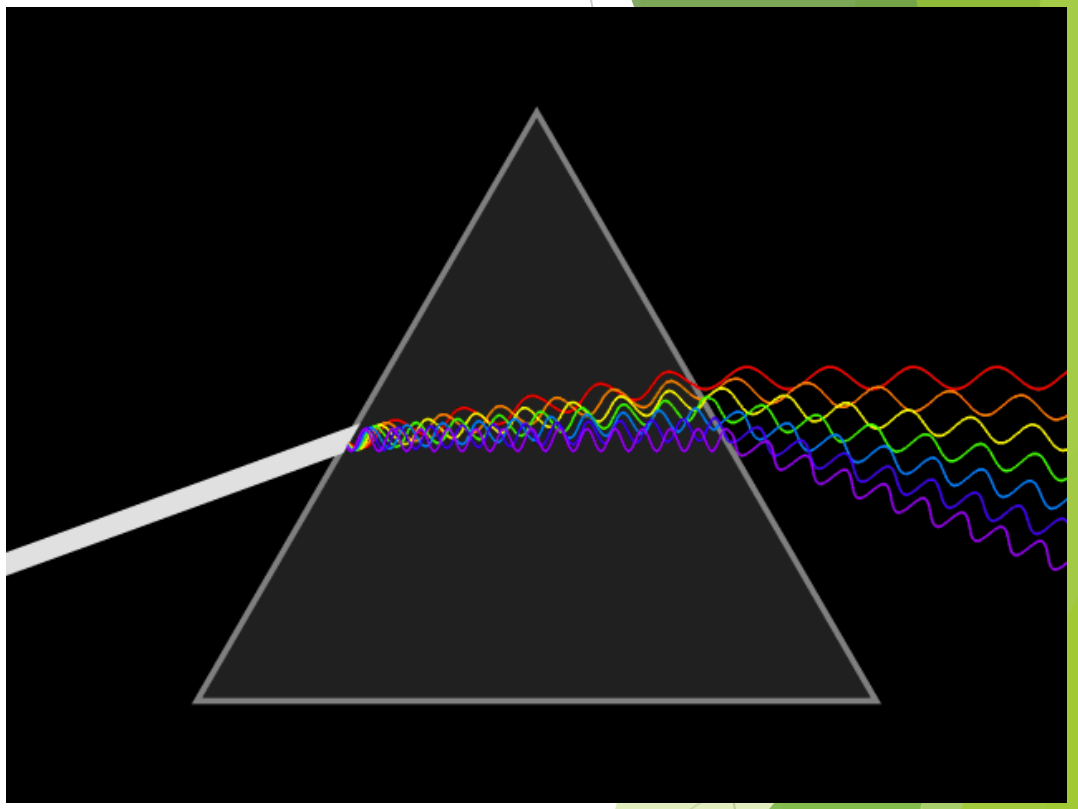
Wave model of light

Light can be thought of as a wave that you can see.

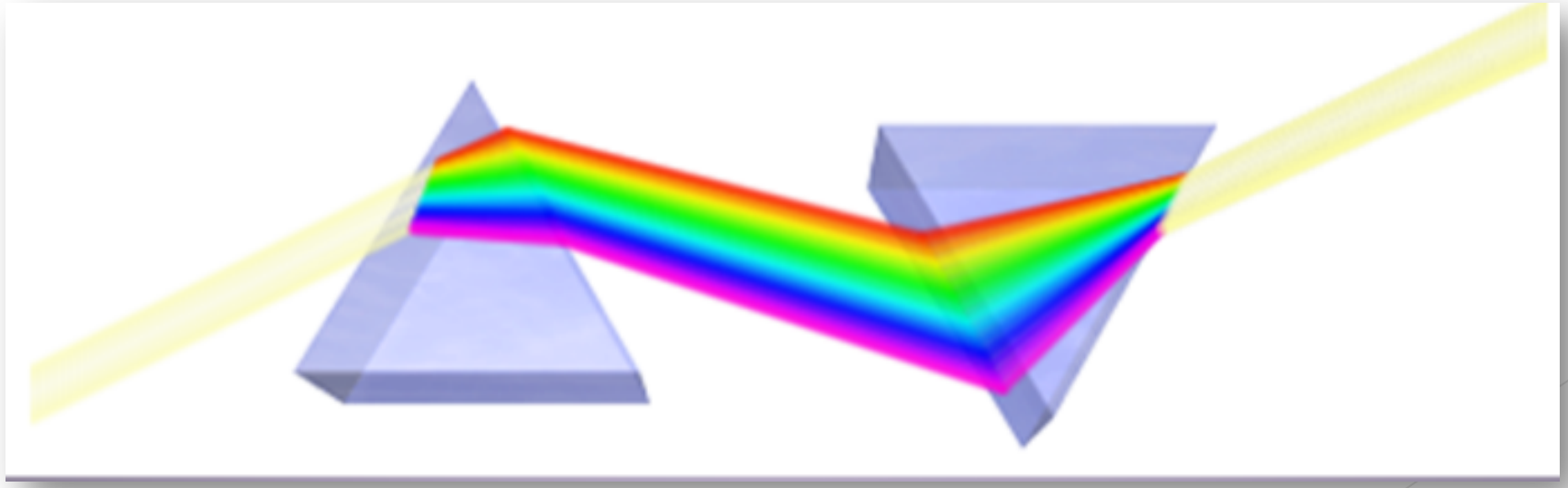
When light enters a different material at an angle, it will bend or “refract”.



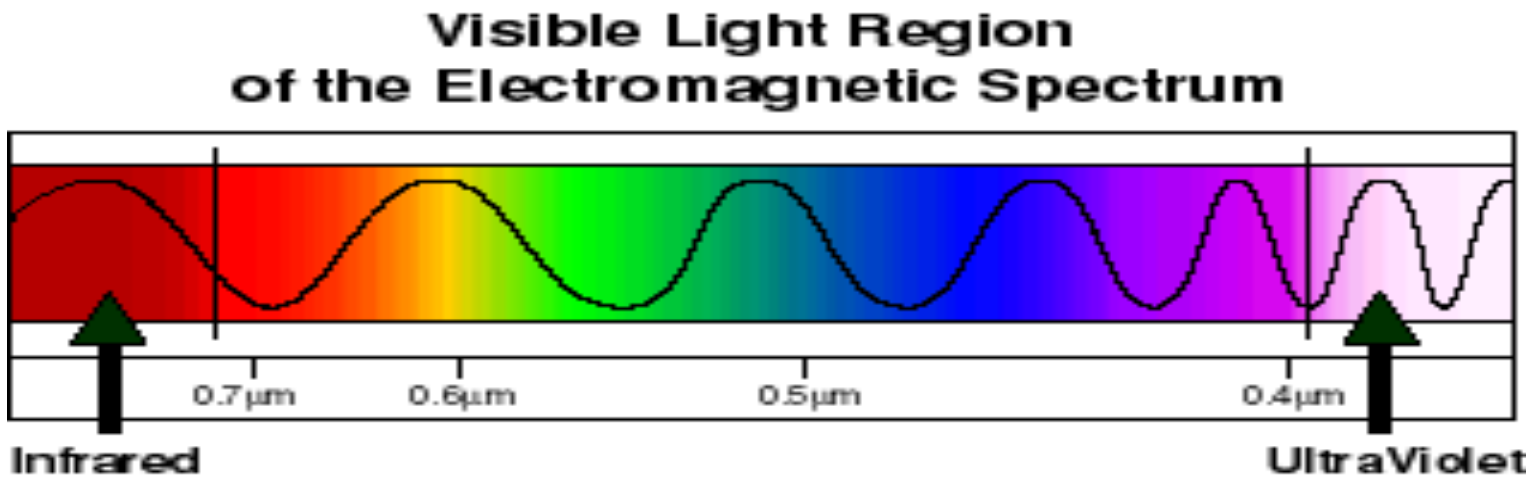
Wave model of light

Newton's prism experiment showed us that white light is actually made of different colours.

When light is split like this, we call it a spectrum



Wave model of light



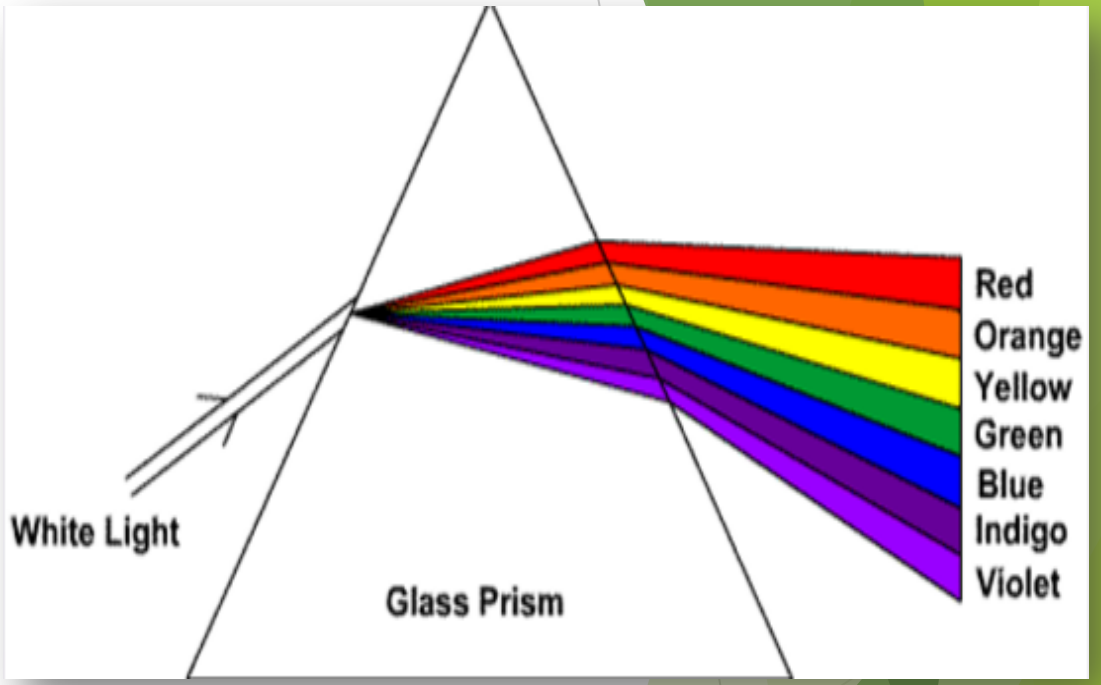
What is the difference between the colours of light?

Wave model of light

Different colours of light have different wavelengths.

Lights with different wavelength registers in our eyes as different colours.

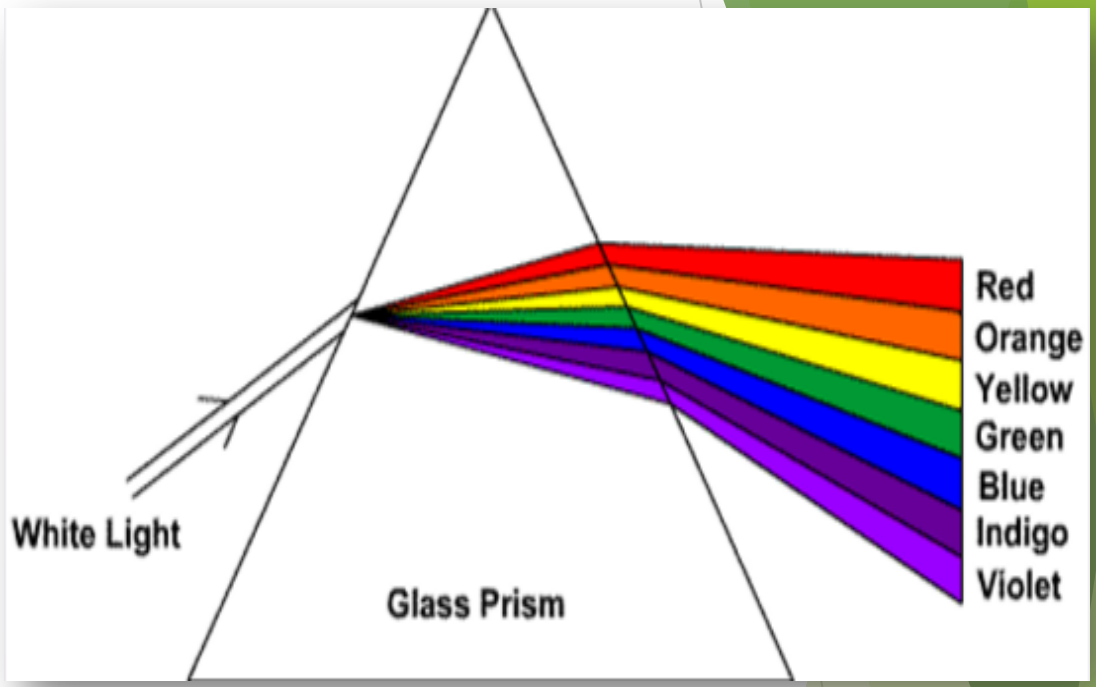
Which light is refracted more?



Wave model of light

Water droplet can also be used like a prism to refract light.

Violet light with lowest wavelength (but highest frequency) will refract the most.



Reflection

When the white light hits an object, some colours are absorbed and others may be reflected.

Our eyes only see the reflected light.

Would green be plant's favourite colour then?

Adding Colours

Ever heard the term RGB?

Red, green, and blue are the primary colours of light.

They can add up to form new colours