

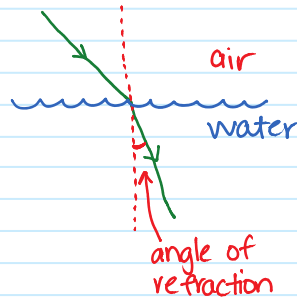
Light travels in a straight line and can be **reflected** or **refracted**.

Its energy is transferred from 1 location to another, such as the Sun to the Earth.

REFRACTION

- is the bending of a wave due to a change in its speed.

- light waves **refract** when they pass from 1 material to another ex. water



- this is due to a change in speed which causes the light to change direction.

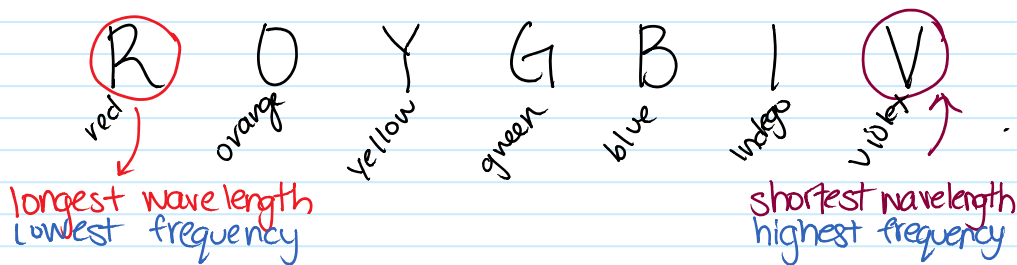
REFLECTION

- occurs when light bounces off an object
- when white light strikes an object, some colors are reflected and some are absorbed!
- **only reflected colours can be seen!**  
ex. a red apple reflects red and absorbs all other colours.

Visible Light (White Light)

- light energy you can see
- white light (sunlight) is the result of mixing together all the different colours of light.
- white light is made up of waves of different wavelengths  
↳ **refract** light by different amounts.

- when white light is separated into its different colours, this band of colour is called the SPECTRUM



- prism causes white light to split into a spectrum.

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