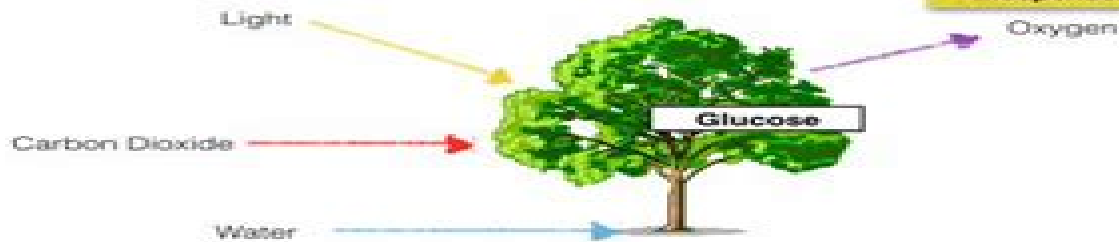
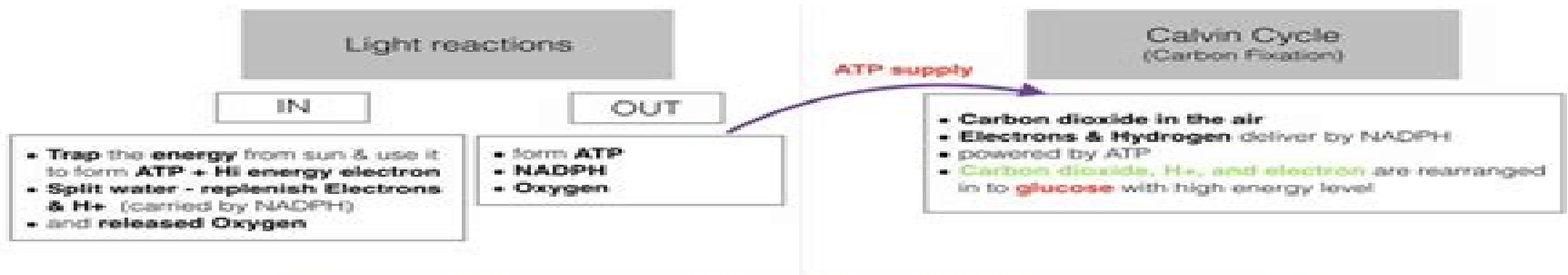


PHOTOSYNTHESIS



Complex series of reactions that takes place in two stages:-
 1. **Light reaction (light dependent)**
 2. **The Calvin cycle - Carbon Fixation (Light independent)**



The nature of light

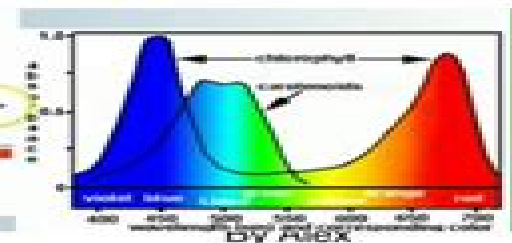
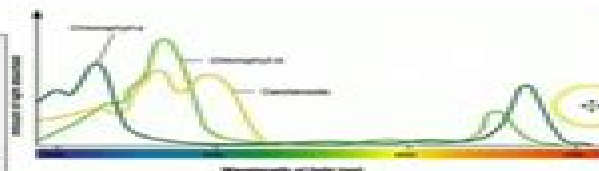
- Light is energy emitted as photons which acts both particle and waves
- Different wavelength of light carry different amount of energy
- The shorter the wavelength, the higher the energy
- Different wavelength = different color
- Sunlight is a mixture of different wavelength:

ROYGBIV

Longer	←	Wavelength	→	shorter
Lower	←	Frequency	→	higher
Lower	←	Energy	→	higher

When the sunlight hit the plant, the energy is absorbed by the pigments. Different pigments absorb different wavelength. If the wavelength not absorbed, it is reflected.

Chlorophyll is the major photosynthetic pigment. It is absorbing some wavelength but reflecting **green**.



Plant Physiology Guide 224

IM Harris



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