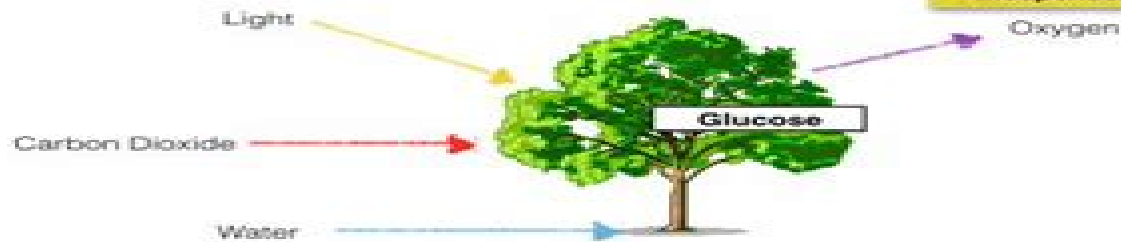
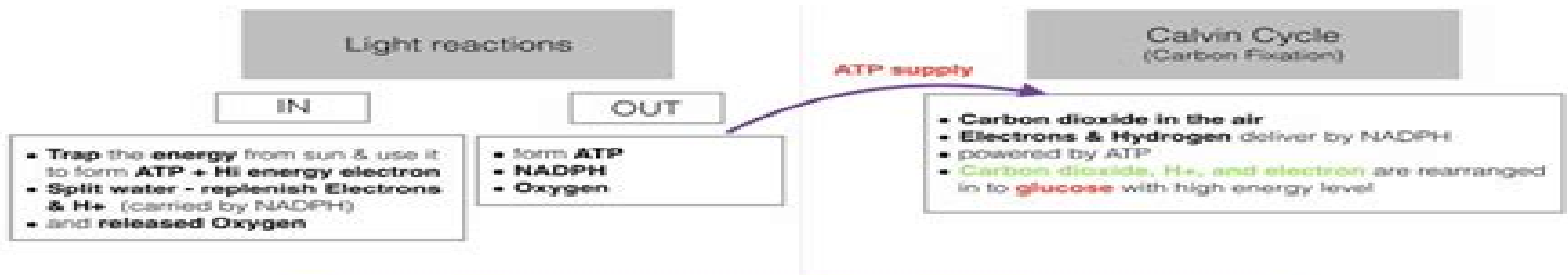


PHOTOSYNTHESIS



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

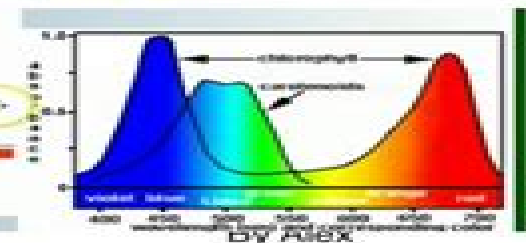
- Light is energy emitted as photons which acts both particle and waves
- Different wavelength of light carry different amount of energy
- The shorter the wavelength, the higher the energy
- Different wavelength = different color
- Sunlight is a mixture of different wavelength:

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**.



By Alex

Plant Physiology Guide 224

Keith Roberts



Plant Physiology Guide 224:

Handbook of Plant and Crop Physiology Mohammad Pessarakli, 2001-09-18 With contributions from over 70 international experts this reference provides comprehensive coverage of plant physiological stages and processes under both normal and stressful conditions It emphasizes environmental factors climatic changes developmental stages and growth regulators as well as linking plant and crop physiology to the production of food feed and medicinal compounds Offering over 300 useful tables equations drawings photographs and micrographs the book covers cellular and molecular aspects of plant and crop physiology plant and crop physiological responses to heavy metal concentration and agrichemicals computer modeling in plant physiology and more

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Guide to Reference and Information Sources in Plant Biology Diane Schmidt, 2006 Part of the Reference Sources in Science and Technology series this bibliography of nearly 1 000 annotated entries covers various aspects of plant biology Organised by topic this book includes various topics from plant physiology to genetics and biotechnology and is useful to botanists

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