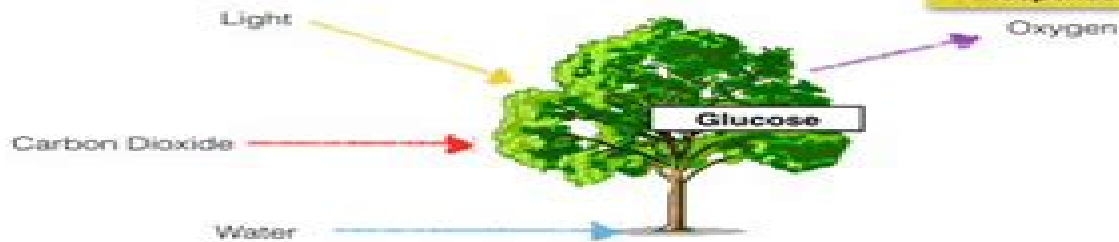
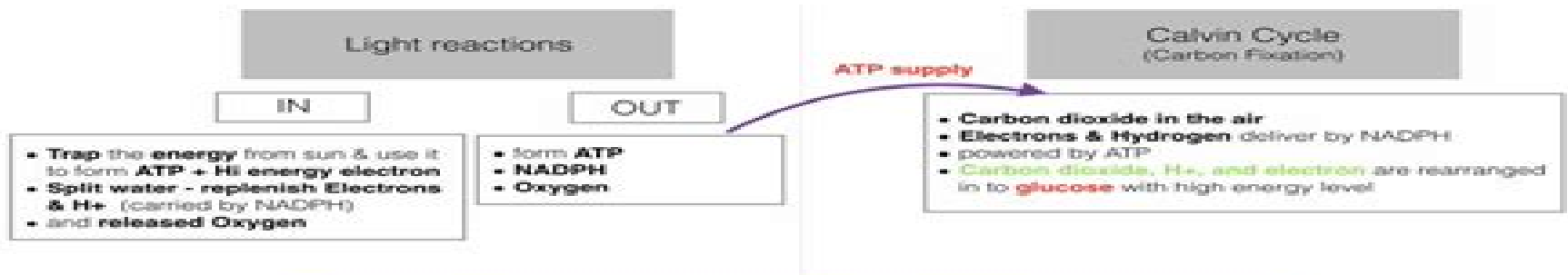


PHOTOSYNTHESIS



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

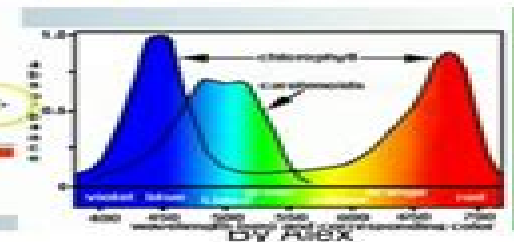
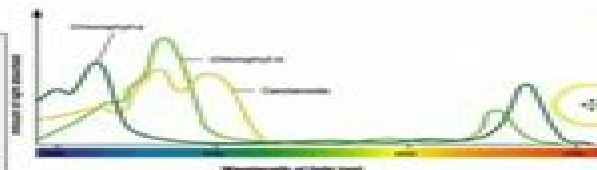
- Light is energy emitted as photons which acts both particle and waves
- Different wavelength of light carry different amount of energy
- The shorter the wavelength, the higher the energy
- Different wavelength = different color
- Sunlight is a mixture of different wavelength:

R O Y G B I V

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**.



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United States. Division of Air Pollution



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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

Guide to Sources for Agricultural and Biological Research J. Richard Blanchard, Lois Farrell, 2023-07-28

Handbook of Plant Science, 2 Volume Set Keith Roberts, 2007-12-10 Plant Science like the biological sciences in general has undergone seismic shifts in the last thirty or so years Of course science is always changing and metamorphosing but these shifts have meant that modern plant science has moved away from its previous more agricultural and botanical context to become a core biological discipline in its own right However the sheer amount of information that is accumulating about plant science and the difficulty of grasping it all understanding it and evaluating it intelligently has never been harder for the new generation of plant scientists or for that matter established scientists And that is precisely why this Handbook of Plant Science has been put together Discover modern molecular plant sciences as they link traditional disciplines Derived from the acclaimed Encyclopedia of Life Sciences Thorough reference of up to the minute reliable self contained peer reviewed articles cross referenced throughout Contains 255 articles and 48 full colour pages written by top scientists in each field The Handbook of Plant Science is an authoritative source of up to date practical information for all teachers students and researchers working in the field of plant science botany plant biotechnology agriculture and horticulture

Air Pollution Control Field Operations Manual United States. Division of Air Pollution, 1962

Handbook of Soil Science Malcolm E. Sumner, 1999-08-31 The Handbook of Soil Science provides a resource rich in data that gives professional soil scientists agronomists engineers ecologists biologists naturalists and their students a handy reference about the discipline of soil science This handbook serves professionals seeking specific factual reference information Each subsection includes a description of concepts and theories definitions approaches methodologies and procedures tabular data figures and extensive references

Guide to the Literature of Botany. Being a Classified Selection of Botanical Works, Including Nearly 6000 Titles Not Given in Pritzel's 'Thesaurus' Benjamin Daydon Jackson, 2025-07-14 Reprint of the original first published in 1881 The Antigonos publishing house specialises in the publication of reprints of historical books We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage

Using the Biological Literature Diane Schmidt, 2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol

manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries Using the Biological Literature A Practical Guide Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition

Cardiology Kanu Chatterjee, 2012-08-31 This two volume set presents recent advances in the knowledge and technology related to the field of cardiology Beginning with a basic introduction the text continues with a step by step approach through the subject covering topics such as cardiovascular pharmacology electrophysiology coronary heart diseases myocardial and pericardial disease and more With contributions from leading international experts and over 1500 colour photographs each chapter contains additional comments and guidelines from reputed international bodies The book is accompanied by a DVD ROM containing high quality video footage of echocardiography *Handbook of Ecotoxicology* David J. Hoffman, Barnett A. Rattner, G. Allen Burton Jr., John Cairns Jr., 2002-11-13 Completely revised and updated with 18 new chapters this second edition includes contributions from over 75 international experts Also a Technical Review Board reviewed all manuscripts for accuracy and currency Focusing on toxic substance and how they affect the ecosystems worldwide the book presents methods for quantifying and measuring ecotoxicological effects in the field and in the lab as well as methods for estimating predicting and modeling in ecotoxicology studies This is the definitive reference for students researchers consultants and other professionals in the environmental sciences toxicology chemistry biology and ecology in academia industry and government Resources in Education, 1987-10 *International Women in Science* Catherine M.C. Haines, 2001-11-20 A comprehensive biographical guide to the scientific achievements personal lives and struggles of women scientists from around the globe *International Women in Science A Bibliographical Dictionary to 1950* presents the enormous contributions of women outside North America in fields ranging from aviation to computer science to zoology It provides fascinating profiles of nearly 400 women scientists both renowned figures like Florence Nightingale and Marie Curie and women we should know better like Rosalind Franklin who along with James Watson and Francis Crick uncovered the structure of DNA Students and researchers will see how the lives of these remarkable women unfolded and how they made their place in fields

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United States Government Organization Manual, 1962 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1971 **Guidelines for Evaluating Air Pollution Impacts on Wilderness Within the Rocky Mountain Region** Dennis Haddow, Tamara Blett, Richard Fisher, Robert C. Musselman, 1998 *A Manual of Botany* Joseph Reynolds Green, 1896 *Enzymes in Fruit and Vegetable Processing* Alev Bayindirli, 2010-05-06 The enzyme market for the fruit and vegetable industry has grown exponentially in recent years and while many books covering enzymes currently exist on the market none offer the specialized focus on fruits and vegetables like this one With contributions from more than 25 contributors who are experts in their respective fields *Enzymes in Fruit and Vegetable Processing* **A Manual of Botany** Robert Bentley, 1882

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