

Aim:

To dissect the flower of *Phaseolus vulgaris* (bean) and display its parts. Study the type of root, stem and leaf.

1. Classification

Division	→ Angiospermata
Class	→ Eucotyledonata
Family	→ Papilionaceae (= Fabaceae)
Genus	→ <i>Phaseolus</i>
Species	→ <i>vulgaris</i>

2. Description of flower

Flower: Papilionaceous, Corolla, Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Endosperm: Nutrient

Calyx: Sepals, Corolla: Petals, Petal: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Corolla: Papilionaceous, Corolla: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Standard: Petal, Keel: Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Petal: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Stamen: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

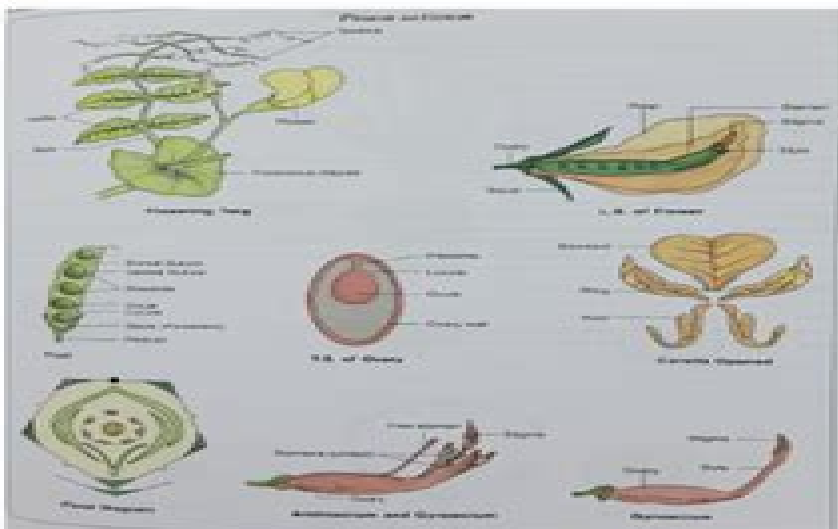
Hypocotyl: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Gynoecium: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Pericarpium: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Placenta: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.

Endosperm: Standard, Keel, Petal, Stamen, Hypocotyl, Gynoecium, Pericarpium, Placenta, Endosperm.



Aim:

Experiment - 2

To compare the rate of transpiration through the upper and lower surfaces of a leaf by using cobalt chloride paper.

Materials required:

A potted plant, cobalt chloride solution, filter paper, clip, desiccator, glass slides, microscope etc.

Principle:

Transpiration is loss of water in the form of vapour from the leaves and other aerial parts of the stem. About 90% of transpiration takes place through the stomata. Some amount of water is also lost through cuticular transpiration. Rate of transpiration depends upon several factors like light, temperature, wind, humidity etc. Also on the size, type, number and distribution of stomata on the leaves. It is known that the distribution and number of stomata on the two surfaces of leaf varies in majority of plants, especially in dicotyledonous leaves, the number of stomata is more on the lower epidermis than the upper epidermis.

Rate of transpiration is determined with the help of cobalt chloride paper. This paper is blue in colour. Moisture released during transpiration can change the blue colour of cobalt chloride paper to pink. The time taken for this change of colour is proportional to rate of transpiration.

Procedure:

1. Dry filter papers in cobalt chloride solution and dry them. Keep them in a desiccator so that they are free from any moisture. In a dried state, they are blue in colour.
2. Fix two dried cobalt chloride papers one on either side of the leaf of a potted plant with the help of clip. Make them wriggle and note the time.
3. Observe the time taken for these papers to turn pink from blue.

Observation:

1. Time taken to change colour from blue to pink when cobalt chloride paper is on the upper surface of the leaf = ... minutes.
2. Time taken to change from blue to pink when cobalt chloride paper is on the lower surface of the leaf = ... minutes.

Result and Discussion:

The upper surface of leaf has less number of stomata so more time will be taken for the cobalt chloride paper to change from blue to pink, while the lower surface of leaf has more number of stomata so less time will be taken for the cobalt chloride paper to change from blue to pink. This is because of the fact that the rate of transpiration is higher when the stomata are more in number and vice versa.

In this way, rate of transpiration in different plants can also be compared. Further effect of various factors such as light, temperature, wind etc. on transpiration, can also be studied.

Biology Practical Manual For Secondary Schools

Charles C. Brown



Biology Practical Manual For Secondary Schools:

Fundamentals of Practical Biology Margaret Ndukwe, 2016-04-30 This book has been designed to meet the requirements of the new Practical Biology curriculum for Senior Secondary Schools and Colleges It is comprehensive simplified and easy to use The concepts are well developed and illustrated by clearly labelled diagrams charts tables and relevant tests to give the student hands on exercise It is hoped that this book will assist candidates to get the idea of what is required of them in Practical Biology and Alternative to Practical Biology examinations

Laboratory Manual of First Year Science for Secondary Schools Waterman Spaulding Chapman Russell, Howard Clinton Kelly, 1909 A Manual for High School Administrators Charles C. Brown, 1925 *High School Manual for Administrators and Teachers* South Carolina. State Department of Education, 1927 *High School Manual for Administrators and Teachers*, 1927 The United States Catalog Mary Burnham, Carol Hurd, 1928 **The Publishers Weekly**, 1924 **School Science and Mathematics**, 1917

Journal of Education, 1912 Maryland School Bulletin Maryland. State Dept. of Education, 1921 **Practical Zoology** Robert William Hegner, 1915 *The North Carolina State List of Approved High School Text Books...* North Carolina. State Committee on High School Text-books, 1920 **Documents** Boston (Mass.). School Committee, 1913 *Annual Report* Boston (Mass.). School Committee, 1913 18 1905 include the Annual report of the superintendent of public schools **The Development of High-school Curricula in the North Central States from 1860 to 1918** John Elbert Stout, 1921 The purpose of this study is to trace the development of high school curricula in the North Central states from 1860 to 1900 A brief introduction furnishes a background for the geographical area indicated Part I contains a treatment of subjects and their organization into curricula Part II deals with the subject matter of the various fields and subjects Part III addresses subjects and subject matter in greater depth For purposes of tabulation the period 1860 1900 has been divided into eight units of five years each to determine as accurately as possible the dates at which significant changes took place In the treatment of subjects organization of curricula and subject matter the facts are presented as revealed by the sources consulted No attempt has been made to give connected accounts of particular schools Peculiarities of individual schools have been noted but conclusions deal with general practices and tendencies Education, 1911 **Mississippi Educational Advance ...**, 1911 American Education, 1917 **Australian national bibliography**, 1961 The Bird Book Fannie Hardy Eckstorm, 1908

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