

CONCEPT MAP

MORPHOLOGY OF FRUITS AND SEEDS

A true fruit (or **carpel**) is a ripened ovary. It consists of a thin or thick pericarp formed from the wall of ovary and seeds formed from the ovules. A fruit in which other floral parts (e.g., thalamus, base of sepals, petals, etc.), participate in its formation is called **false fruit (or pseudocarp)** e.g., apple and pear. The seeds within the fruits have reserve food for nourishing the young seedlings till they become nutritionally independent.

Some fruits are formed without fertilisation i.e., seedless fruits. They are called as **parthenocarps** (e.g., banana). Fruits are classified into three main categories – **simple fruits**, **aggregate fruits** and **composite fruits**.

Simple fruits

Simple fruits develop from monocarpellary ovary or multicarpellary syncarpous ovary. Simple fruits may be **dry** (pericarp is undifferentiated) or **succulent** (pericarp is differentiated into epicarp, mesocarp and endocarp).

Dry fruits

Dry fruits are of three types – **Achenial** (single seeded, indehiscent), **capsular** (many seeded, dehiscent) and **schizocarpic** (many seeded, after ripening divide into single seeded segments).

Succulent fruits

Succulent fruits can be divided into three main types: berry, drupe and pome.
(i) **Berry**: In superior or true berry (derived from superior ovary) usually all the three layers of fleshy pericarp are edible, e.g., grapes, tomato. In inferior or false berry (derived from inferior ovary) epicarp is fused with thalamus to form mesocarp, e.g., banana (parthenocarpic), guava. There are some special berries also such as **balauata** (e.g., pomegranate), **pepo** (e.g., cucumber), and **hesperidium** (e.g., orange).
(ii) **Drupe (or stone fruit)**: In this fruit, epicarp forms the rind, mesocarp is fleshy and endocarp is hard and stony, e.g., almond, mango, Jujube, etc.
(iii) **Pome**: It is a false fruit that develops from the fleshy thalamus of multicarpellary, syncarpous, inferior ovary e.g., apple, pear, etc.

Composite fruits

A composite or multiple fruit develops from the whole inflorescence. It is of two main types: sorosis and syconium.
Sorosis: These fruits develop from spike, spadix or catkin inflorescence. Sorosis of pineapple develops from an inflorescence spike of these flowers with persistent bracts. Sorosis of mulberry develops from a female catkin.
Syconium: It develops from hypanthodium inflorescence. Receptacle becomes fleshy and edible, many achenes develop from pistillate flowers, e.g., Ficus carica.

Aggregate fruits

Aggregate fruits are the groups of fruitlets which develop from the multicarpellary, apocarpous ovaries. The individual carpel or pistil develops into a fruitlet and these fruitlets occur as a clustered unit on a single receptacle, which is referred to as an aggregate fruit or etaerio, e.g., etaerio of achenes (Ranunculus, lotus), etaerio of follicles (Crotalaria), etaerio of berries (Custard apple), etaerio of drupes (e.g., Rubus, strawberry), etc.

Seed

Seed is a ripened ovule which contains an embryo, adequate reserve food and covering for protection against mechanical injury. A seed may have 1 or 2 coverings called **seed coats**. Outer is **testa** and inner is called **tegmen**. Seeds can be endospermic and non-endospermic.

(i) **Endospermic or albuminous seeds**: Endosperm is present and food reserve remains in endosperm, e.g., most monocots and some dicots (Ricinus communis).

(ii) **Non-endospermic or exalbuminous seeds**: The endosperm is consumed during seed development and the food is stored in cotyledons, e.g., majority of dicot seeds (Cicer arietinum) and in some monocot seeds.

Achenial fruits (Indehiscent fruit)

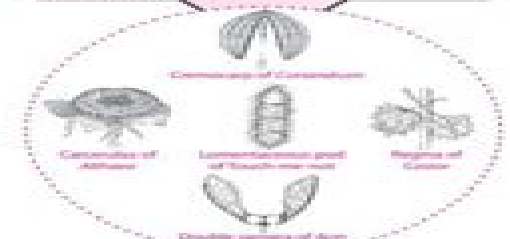
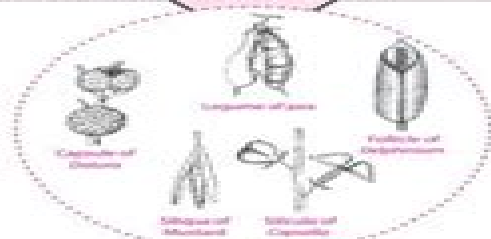
Achenial fruits are of five types:
(i) **Achenes**: It develops from monocarpellary, superior, unilocular and undeveloped (inferior) pericarp is free. From seed exsert at one point, e.g., *Millettia jalapa*. (ii) **Caryopsis (or Grain)**: It develops from monocarpellary, superior, unilocular ovary. Pericarp is completely fused with the testa, e.g., members of family Poaceae. (iii) **Cypselis**: It develops from bicarpellary, syncarpous, inferior and unilocular ovary. Pappus may be present for dispersal, e.g., *Ranunculus*. (iv) **Nut**: Pericarp becomes hard, woody or leathery. If fruit may develop from monocarpellary, superior ovary (e.g., cashew nut), bicarpellary, syncarpous, trilocular ovary (e.g., litchi, etc.). (v) **Samara**: Pericarp becomes flat like wings and thus help in wind dispersal, e.g., *Holoptelea*.

Capsular fruits (Dehiscent fruit)

Capsular fruits are of five types:
(i) **Legume (or pod)**: This fruit develops from superior, monocarpellary, unilocular ovary with marginal placentation, it dehisces by both dorsal and ventral sutures, e.g., members of family Leguminosae. (ii) **Follicle**: The fruit dehisces by only one suture, e.g., *Delphinium*. (iii) **Siliqua**: It develops from a bicarpellary, superior ovary with parietal placentation and a false septum called replum, it dehisces by two valves, e.g., members of family Brassicaceae. (iv) **Silicle**: It is a chambered and flattened siliqua, e.g., *Capsella bursa-pastoris*. (v) **Capsule**: According to the mode of dehiscence, capsule may be **poricidal capsule** (e.g., *Populus*), **dentitidal capsule** (e.g., *Pink*), **pyxidium** (e.g., *Portulaca*), **loculicidal capsule** (e.g., *Gossypium*), **septicidal capsule** (e.g., *Mold*), **septicidal capsule** (e.g., *Datura*), etc.

Schizocarpic fruits (Splitting fruits)

Schizocarpic fruits are of five types:
(i) **Cremocarp**: It develops from a bicarpellary, syncarpous, bicarpellary, inferior ovary. On maturity, the fruit splits into two mericarps, each with one seed, e.g., members of family Apiaceae. (ii) **Lomentum**: The fruit is a modification of legume, which is constricted in between the seeds, e.g., *Mimosa*, *Acacia*, etc. (iii) **Cercaria**: At maturity, the fruit breaks up into single seeded indehiscent mericarps, e.g., *Albizia*. (iv) **Compound samara**: At maturity, the fruit splits up into single seeded winged mericarps, e.g., *Acer*. (v) **Regma**: It develops from multicarpellary pistil and on maturity, splits into as many cocci as the number of carpels, e.g., *Gemina*.



Seeds Scattered Concept Map Answers

David Baud



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i-Science - Interact, Inquire, Investigate (Cycles) Textbook Primary 5 & 6 Ho Peck Leng, 2009 **Apps, Technology and Younger Learners** Natalia Kucirkova, Garry Falloon, 2016-11-10 This book provides an in depth analysis of the challenges potential and theoretical possibilities of apps and considers the processes of change for education and home learning environments Drawing together a diverse team of international contributors it addresses the specific features context of use and content of apps to uncover the importance of these tools for young children s learning Apps Technology and Younger Learners focuses on ways that apps support early years and primary school learning connect various learning spaces and engage children in a range of edutainment and knowledge building activities In each chapter the current state of knowledge and key research questions in the field for future study are identified with clear messages provided at the end of each chapter Focusing on empirical studies and strong theoretical frameworks this book covers four key parts Understanding the learning potential of children s apps Key app challenges Empirical evidence Future avenues This book is an essential guide for educators post graduate students researchers and all those interested in the advantages or challenges that may result from integrating apps into early education **Seeds and Survival** Paul Richards, Guido Ruivenkamp, International Plant Genetic Resources Institute, 1997 **Te HS&T a** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02

Harcourt Science , 2002 Parade of Life , 1993 *Maps in a Mirror* Orson Scott Card, 2009-11-30 Maps in a Mirror brings together nearly all of Orson Scott Card s short fiction written between 1977 and 1990 For those readers who have followed this remarkable talent since the beginning here are all those amazing stories gathered together in one place with some extra surprises as well For the hundreds of thousands who are newly come to Card here is chance to experience the wonder of a writer so versatile that he can handle everything from traditional narrative poetry to modern experimental fiction with equal ease and grace The brilliant story telling of the Alvin Maker books is no accident the breathless excitement evoked by the Ender books is not a once in a lifetime experience In this enormous volume are forty six stories plus ten long intensely personal essays unique to this volume In them the author reveals some of his reasons and motivations for writing with a good deal of autobiography into the bargain One of the genre s most convincing storytellers An important volume Library Journal At the Publisher s request this title is being sold without Digital Rights Management Software DRM applied Disha Combo (4 books) Olympiad Champs Class 7 Science, Mathematics, English & Logical Reasoning with Chapter-wise Previous 12 Year (2013 - 2024) Questions | 2026 Exam , The Combo set of 4 Books Olympiad Champs Science Mathematics English Logical Reasoning Class 4 with Chapter wise Previous 12 Year 2013 2024 Questions is a complete preparatory book in 2 color and has many value added features not only for Olympiad Exams but also for Class 4 Updated with Solved Questions of 2023 2024 thus including Previous 12 Years of the various Olympiad Exams from 2013 2024 As per the Latest Pattern and Syllabus issued by various Olympiad conducting bodies companies Value Added Activity Sheets have been added at the end of the

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Parade of Life PH Inc. Staff,1994 *The Science Hub-TB* Preetika Sawhney, Archana Sashi Kumar, Neha Jindal, Gautam Bindal, Shalini Samadhiya and Tripti Mehta, A Book on Science Textbook The ebook version does not contain CD

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Science Technology Engineering and Mathematics and shows how librarians can become a key component in STEM education guiding teachers and sparking interest through the books and technology inherent in their curriculum The volume offers 20 mentor texts plus in depth collaborative lesson plans linked to the Common Core Standards for K 5 librarians There are additional lessons for classroom teachers as well as activities that can easily be done in the library or classroom Each lesson includes mentor text information an overview of the lesson step by step lesson plans assessment options and extension activities By implementing these lessons in the library librarians will be able to cover multiple Common Core State Standards and science standards and at the same time establish the library as a resource for teaching STEM subjects **Lost Boy**

Found Kirsten Alexander, 2020-03-10 Perfect for fans of the NYT bestseller Sold on a Monday this Southern historical novel based on the true story of a boy's mysterious disappearance examines despair loyalty and the nature of truth In 1913 on a summer's day at Half Moon Lake Louisiana four year old Sonny Davenport walks into the woods and never returns The boy's mysterious disappearance from the family's lake house makes front page news in their home town of Opelousas John Henry and Mary Davenport are wealthy and influential and will do anything to find their son For two years the Davenports search across the South offer increasingly large rewards and struggle not to give in to despair Then at the moment when all hope seems lost the boy is found in the company of a tramp But is he truly Sonny Davenport The circumstances of his discovery raise more questions than answers And when Grace Mill an unwed farm worker travels from Alabama to lay claim to the child newspapers townsfolk even the Davenports own friends take sides As the tramp's kidnapping trial begins and two desperate mothers fight for ownership of the boy the people of Opelousas discover that truth is more complicated than they'd ever dreamed *Harcourt Science: Life science, [grade] 3, units A and B, teacher's ed*, 2000 **Doing Field Projects** John

Forrest, 2022-03-25 A must read guide to conducting qualitative field research in the social sciences Doing Field Projects Methods and Practice for Social and Anthropological Research delivers a thorough and insightful introduction to qualitative field methods in the social sciences Ideal for undergraduate students just starting out in fields like anthropology sociology and related subjects the book offers readers twenty instructive projects Each project is well suited as a standalone exercise or several may be combined as a series of field work assignments From interview techniques to participant observation kinship analysis spatial mapping photo and video documentation and auto ethnography Doing Field Projects covers each critical area of qualitative fieldwork students are likely to encounter Every project also contains discussions of how to execute the research avoid common problems and mistakes and present the uncovered data in several different formats This important resource also offers students A thorough introduction to fieldwork including the history of fieldwork methods the shift from colonial to post colonial anthropology and discussion of fieldwork vs ethnography Comprehensive explorations of getting started with fieldwork including necessary equipment research design data presentation and journal keeping Practical discussions of the ethics of fieldwork including the Do No Harm principle institutional approval openness and

anonymity In depth examinations of autoethnography proxemics mapping recorded interviews participant observation and engaged anthropology The opportunity to conduct a complete fieldwork course using digital and online resources only Supporting learning material for each chapter including a brief outline of Learning Goals and a paragraph summarizing the contents Doing Field Projects Methods and Practice for Social and Anthropological Research is the perfect guide for undergraduate students taking courses and programs in which qualitative field methods are central to the field like anthropology and sociology *Thought This Might Help Someone* David Porter,2021-01-13 *Thought This Might Help Someone* is a journey to the next great version of yourself It follows the dailies David Porter s continuing series of daily seeds he scatters to the universe Through personal introspection the author has created a true transformation in his life from disconnected to powerful As you read the book you ll learn how to trust yourself as you reach for your dreams find connection and fulfillment with others seek opportunities to look at the world differently After each daily reflection the author poses questions that will allow you to craft your own dailies Your answers will become the raw material that creates each greater version of you By taking the time and making the effort you can create your own personal scripture as a product of your mind heart and soul And from there your trajectory is squarely in your hands Slow down take time to reflect and find the greatest version of you with the insights and wisdom in this book *Effect of Nitric Oxide and Inflammatory Mediators on Axonal Transport* Massimiliano Stagi,2005 **New Croton Review: Fall 2024** Jeanne-Noel Mahoney,2024-11-02 The Fall 2024 Issue contains 94 works of fiction nonfiction poetry visual art and photography from 56 people worldwide

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