

செய்முறை பாடத்திட்டம்





Month	Time	Name of the Experiment
June	40 minutes	To find the diameter of a spherical body
October	40 minutes	To find the thickness of the given iron nail
January	40 minutes	Melting point of wax
July	40 minutes	Measurement of volume of liquids
August	40 minutes	Identification of adaptations in animals
August	40 minutes	Identification of plants and animal tissues
November	40 minutes	To detect the adulterants in food samples
November	40 minutes	Identification of microbes
February	40 minutes	Economic biology
February	40 minutes	Identification of adaptations in plants



Month	Name of the Experiment	
June	Physics	Determination of weight of an object using the principle of moments
July		Determination of focal length of a convex lens
September		Determination of resistivity
June	Chemistry	Identification of the dissolution of the given salt whether it is exothermic or endothermic
July		Testing the solubility of the salt
August		Testing the water of hydration of salt
October		Test the given sample for the presence of acid or base
June	Bio-Botany	Photosynthesis-Test tube and Funnel experiment (Demonstration)
August		Parts of a Flower
August		Mendel's Monohybrid cross
October		Observation of Transverse section of Dicot stem and Dicot root
July	BIO-Zoology	Observation of Models-Human Heart and Human brain
August		Identification of Blood cells
October		Identification of Endocrine Glands

NOTE : 40 MINUTES FOR EACH PRACTICALS

CLASS 11

PHYSICS

MONTH	SL	EXPERIMENT
June	1	Vernier caliper
	2	Non Uniform Bending
July	3	Spring Constant
	4	Simple Pendulum
August	5	Resonance column
	6	Stoke's Method
October	7	Capillary Rise Method
	8	Newton law of Cooling
November	9	Sonometer First Law
	10	Sonometer Second Law

CLASS 11

CHEMISTRY

MONTH	SL	EXPERIMENT
June	1	Lead Nitrate
	2	Copper Sulphate
July	3	Copper Carbonate
	4	Aluminium nitrate
	5	Ferric Chloride
August	6	Zinc Sulphide
	7	Zinc Sulphate
	8	Calcium Carbonate
September	9	Ammonium Chloride
October	10	Barium Chloride
	11	Magnesium Sulphate
	12	Magnesium Carbonate
November	13	Aluminium Sulphate
	14	Magnesium Phosphate
	15	Ammonium Bromide

CLASS 11



BOTANY

MONTH	SL	EXPERIMENT
JUNE	1	BACTERIA - LACTOBACILLUS
	2	FUNGI - YEAST AND RHIZOPUS
	3	ALGAE - CHLAMYDOMONAS, VOLVOX, SPIROGYRA, OEDOGONIUM
	4	CHARA AGARICUS - BASIDIOCRAP
	5	AGARICUS - BASIDIOCARP
	6	FOLIOSE - LICHEN
	7	FUNARIA - HABIT
	8	ADIANTHUM - HABIT
	9	ULTRA STRUCTURE OF BACTERIAL CELL
	10	TYPES OF STELE
JULY	11	PHYLLOCLADE - OPUNTIA
	12	TYPES OF VENATION
	13	TYPES OF INFLORESCENCE
	14	SPECIAL INFLORESCENCE - CYATHIUM
	15	AGGEGATE FRUIT - POLYALTHIA
AUGUST	16	FABACEAE - CLITORIA TERNATEA
	17	APOCYNACEAE - CATHARANTHUS ROSEUS
	18	SOLANACEAE - DATURA METAL
	19	EUPHORBIACEAE - RICINUS COMMUNIS
	20	MUSACEAE - MUSA PARADISIACA
	21	CELL CYCLE STAGES

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BOTANY

MONTH	SL	EXPERIMENT
SEPTEMBER	22	MITOSIS CELL DIVISION STAGES - METAPHASE, ANAPHASE
	23	NITROGEN BASES
	24	TEST FOR REDUCING SUGAR - BENEDICT REAGENT TEST
	25	TEST FOR STARCH - IODINE TEST
	26	TEST FOR PROTEIN - BIURET TEST
	27	TEST FOR LIPIDS - SAPONIFICATION TEST
OCTOBER	28	TYPES OF TISSUSE
	29	ANATOMICAL STRUCTURE - MONOCOT AND DICOT- ROOT, STEM AND LEAF
	30	PLASMOLYSIS AND DEPLASMOLYSIS
	31	POTATO OSMOSCOPE EXPERIMENT
	32	STOMATAL DISYRIBUTION
NOVEMBER	33	PAPER CHROMOTOGRAPHY
	34	WILMOTT'S BUBBLER EXPERIMENT
	35	EXPERIMENT TO DEMONSTRATE THE PRODUCTION OF CO ₂ IN AEROBIC RESPIRATION
	36	ARC AUXANOMETER EXPERIMENT



MONTH	SL	EXPERIMENT
June	Preserved Specimens/Photographs	
	1	Spongilla Sea Anemone
	2	Tapeworm Ascaris Earthworm
	3	Cockroach
July	4	Pila, Starfish, Balanoglossus, Rat
	5	Squamous Epithelium
	6	Columnar Epithelium
	7	Test for Salivary Amylase
August	8	Identify the sex of cockroach (using hand lens)
	Prepared Slides/Pictures/Photographs	
	1	RBC
	2	WBC
3	Test for Ammonia	
4	Test for Urea	

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ZOOLOGY

MONTH	SL	EXPERIMENT
September	5	Humerus
	6	Pelvic girdle
	7	Rib cage
	8	Ball and Socket joint
October	9	Addison's disease
	10	Marasmus
	11	Exophthalmic Goitre
	12	Determine Your Blind Spot
November	Identify the Medical instruments	
	1	Stethoscope
	2	Sphygmomanometer
	3	Glucometer
	4	ECG
	Photographs/pictures	
	5	Kangayam bull
6	Honey bee	
7	Bombyx mori	

MONTH	S.NO	EXPERIMENT(Slide/photograph/model)
JUNE	1	Bacteria-Lactobacillus
	2	Fungi-Yeast
	3	Algae-Chlamydomonas
	4	Agaricus-Basidiocarp
	5	Foliose Lichen
JULY	6	Phylloclade-Opuntia
	7	Special Inflorescence-Cyathium
	8	Aggregate fruit-Poyalthia
AUGUST	9	Fabaceae-Clitoria ternatea
	10	Solanaceae- Datura metal
SEPTEMBER	11	Mitotic cell devision-Metaphase,Anaphase
OCTOBER	12	Plant Anatomical structure-Dicot leaf and Monocot leaf
	13	Starch-Iodine test
	14	Lipid- Saponification test
	15	Protein-Biuret test
NOVEMBER	16	Plasmolysis and Deplasmolysis
	17	Potato Osmoscope
	18	Paper Chromatography
	19	Wilmott's bubbler
	20	Demonstration of production of CO ₂ during respiration
	21	Arc auxanometer

MONTH	SL	EXPERIMENT
June	Preserved Specimens/Photographs	
	1	Spongilla Sea Anemone
	2	Tapeworm Ascaris Earthworm
	3	Cockroach
	4	Pila, Starfish, Balanoglossus, Rat
July	5	Squamous Epithelium
	6	Columnar Epithelium
	7	Test for Salivary Amylase
	8	Identify the sex of cockroach (using hand lens)
August	Prepared Slides/Pictures/Photographs	
	1	RBC
	2	WBC
	3	Test for Ammonia
September	4	Test for Urea
	5	Humerus
	6	Pelvic girdle
	7	Rib cage (True ribs, Pseudo ribs, Floating ribs)
October	8	Ball and Socket joint
	9	Addison's disease
	10	Marasmus
November	11	Exophthalmic Goitre
	1	Determine Your Blind Spot

MONTH	SL	EXPERIMENT
JUNE	CS1	Gross Salary
JULY	CS2	Percentage
	CS3	Palindrome
AUGUST	CS4	Number Conversion
	CS5	Fibonacci prime Series
	CS6	Insert/Delete elements in an array
SEPTEMBER	CS7	Boundary elements of a matrix
OCTOBER	CS8	ABC Publishers
	CS9	Employee details using class
NOVEMBER	CS10	Student Details

CLASS 11

COMPUTER
APPLICATION

MONTH	SL	EXPERIMENT
JUNE	CA1	Open office Writer-Formatting Invoice
JULY	CA2	Open Office Calc - Interest Calculation
	CA3	HTML-Form Design
AUGUST	CA4	HTML- Height and Weight Table
	CA5	HTML- Nested List
SEPTEMBER	CA6	CSS-Formatting Webpage
OCTOBER	CA7	Javascript - Display Text
	CA8	Javascript - Multiplication Table
NOVEMBER	CA9	Javascript - Display Weekdays in Words
	CA10	Javascript - Login Form

CLASS 12



PHYSICS

MONTH	SL	EXPERIMENT
June	1	Meter bridge
	2	Tangent galvanometer
July	3	Potentiometer
	4	Spectrometer - Prism
August	5	Spectrometer - Grating
	6	PN Junction diode
October	7	Zener Diode
	8	NPN Junction transistor
November	9	Logic gates
	10	De Morgan's first and Second theorems



MONTH	SL	EXPERIMENT
June	1	Estimation of Ferrous Sulphate
	2	Estimation of Ferrous ammonium sulphate
July	3	Estimation of Oxalic acid (Redox titration) Organic qualitative analysis of; 1. acetophenone 2. cinnamic acid
August	4	Estimation of Sodium Hydroxide Organic qualitative analysis of; 3. salicylic acid 4. Benzoic acid
September	5	Estimation of Oxalic acid (Acid base titration)
October	6	Organic qualitative analysis of 5. Benzaldehyde 6. Urea 7. Aniline
November	7	Organic qualitative analysis of ; 8. Cinnamaldehyde 9. Glucose



MONTH	SL	EXPERIMENT
June	1	T.S. of Mature anther
	2	L.S. of an Angiospermic ovule
	3	Natural methods of vegetative propagation in plants - Rhizome, Sucker, Epiphyllous buds
	4	Adoptation of flowers for pollination by different agents - Wind, Insects
	5	Structure of Dicotyledonous seed - Gram (Cicer)
	6	Types of ovules - Anatropous, Orthotropous, Campylotropous
	7	Study of Pollen germination on a slide
July	8	To verify Mendel's Monohybrid cross
	9	Analysis of seed sample to study Mendelian Dihybrid Ratio
August	10	Chromosomal aberration - Deletion, Duplication, Inversion
	11	Picture of a vector [pBR 322]
	12	Genetic / Linkage maps
	13	Isolation of DNA from plant material



MONTH	SL	EXPERIMENT
September	14	Plant tissue culture - Callus with plantlet
October	15	T.S. of Nerium leaf
	16	Ecological adaptations of plants - Hydrophytic, Xerophytic, Halophytic and Epiphytic
	17	Types of ecological pyramids - Number, Biomass, Energy
	18	Dissect and display the pollinia of Calotropis
	19	Dispersal of seeds by various agent - wind, water and animal
	20	Flow of energy and Ten percent law
November	21	Study of pH of different types of soils
	22	Water holding capacity of garden soil and road side soil
	23	Determination of Population density and Percentage frequency of different plant species of given area by Quadrat method
	24	Economically important plants and their uses Wheat, Black pepper, Cotton, Keezhanelli, Green gram, Banana
	25	Economically important plant products and their uses: Sesame / Gingelly oil, Rubber, Aval (Flaked rice), Rose water, Henna powder, Aloe gel



MONTH	SL	EXPERIMENT
June	1	Human sperm, Human Ovum Paramecium - Conjugation
July	2	ABO - blood grouping Analysing mendelian traits in a given population TRNA- Structure Homologous Organs Analogous Organs
August	3	Sex chromosomal Anomaly - turver's syndrome Normal Human Karyotype Autosomal Anomaly - Turners's syndrome Autosomal Disease - sickle cell anemia X-linked disease Haemophilia
September	4	Health & Disease Immunology and microbes in Human welfare Fermentation by yeast Entamoeba histolytica Thymus T.S. Lymphnode- T.S.
October	5	Bio Technology Animal Cloning - Dolly(sheep) Insulin production - flowchart
November	6	Ecology Marking of wildlife sanctuary and National parks in India Determination of colour and PH in the given water samples Mutualism - sea anemone on hermit crab commensalism Suckerfish (echeneis) on Shark

CLASS 12

BIO
BOTANY

MONTH	S.NO	EXPERIMENT(Slide/photograph/model)
JUNE	1	T.S of Mature Anther
	2	L.S of an Angiospermic ovule
	3	Structure of Dicotyledonous seed - Gram
JULY	4	E.coli cloning vector (pBR 322)
	5	Analysis of seed sample to study Mendelian Dihybrid Ratio
AUGUST	6	Chromosomal aberration- Deletion, Duplication, Inversion
	7	Genetic / Linkage maps
SEPTEMBER	8	Plant tissue culture - callus with plantlets
OCTOBER	9	Type of ecological pyramid - Biomass
	10	Flow of energy and ten percent law
NOVEMBER	11	Study of Pollen germination on a slide
	12	Isolation of DNA from plant material
	13	Ecological Importance of Plants - Sesame, Rubber, Henna powder

MONTH	SL	EXPERIMENT
June	1	Human sperm, Human Ovum Paramecium - Conjugation
July	2	ABO- blood grouping Analysing mendelian traits in a given population tRNA- Structure Homologous Organs Analogous Organs
August	3	Normal Human Karyotype Autosomal Anomaly Pacaus syndrome Sex chromosomal Anomaly - Turners's syndrome Autosomal Diease-sickle cell anemia X-linked disease Haemophilia
September	4	Fermentation by yeast Entamoeba histolytica Thymus T.S. Lymphnode - T.S.
October	5	Bio Technology Animal Cloning - Dolly (sheep) Insulin production - flowchart
November	6	Ecology Marking of wildlife sanctuary and National parks in India Determination of colour and PH in the given water samples

CLASS 12

COMPUTER
SCIENCE

MONTH	SL	EXPERIMENT
JUNE	PY1	a) Calculate Factorial
		b) Sum of Series
JULY	PY2	a) Odd or Even
		b) Reverse the String
	PY3	Generate values and remove odd numbers
AUGUST	PY4	Generate prime numbers and Set Operations
	PY5	Display a string elements -Using Class
	PY6	MYSQL- Employee Table
SEPTEMBER	PY7	MYSQL-Student Table
OCTOBER	PY8	Python with CSV
	PY9	Python With SQL
NOVEMBER	PY10	Python Graphics with Pip

CLASS 12

COMPUTER
APPLICATION

MONTH	SL	EXPERIMENT
JUNE	CA1	Page Formatting using pagemaker
JULY	CA2	Creating notice board using pagemaker
	CA3	Creating visiting card using pagemaker
AUGUST	CA4	Creating notice board using pagemaker
	CA5	Performing Arithmetic Operations using PHP
SEPTEMBER	CA6	Using a if...else if...else statement in PHP
OCTOBER	CA7	Using a Switch Statement in PHP
	CA8	Using a while loop in PHP
NOVEMBER	CA9	Using a For Loop in PHP
	CA10	Using a Foreach Loop in PHP



ஒருமைக்கண் தான்கற்ற கல்வி ஒருவற்கு
எழுமையும் ஏமாப் புடைத்து.

