



Subodh Public School Rambagh

Session: - 2017-2018

Subject-Science

Subject Code - 086

Class: -Flyers-2

Introduction: -

The subject of science plays an important role in developing in children well-defined abilities in cognitive, affective and psychomotor domains. It augments the spirit of enquiry, creativity, objectivity and aesthetic sensibility.

Whereas the upper primary stage demands that plentiful opportunities should be provided to the students to engage them with the processes of science like observing, recording observations, drawing, tabulation, plotting graphs etc., the secondary stage expects abstraction and quantitative reasoning to occupy a more central place in the teaching and learning of science. Thus, the idea of atoms and molecules being the building blocks of matter makes its appearance, as does Newton's law of gravitation. The present syllabus has been designed around six broad themes viz. Food, Materials, The World of The Living,

How Things Work, Moving Things, People and Ideas, Natural Phenomenon and Natural Resources.

Special care has been taken to avoid temptation of adding too many concepts than can be comfortably learnt in the given time frame. No attempt has been made to be comprehensive.

At this stage, while science is still a common subject, the disciplines of Physics, Chemistry and Biology begin to emerge. The students should be exposed to experiences as well as modes of reasoning that are typical of the subject.

Science -Text book for class X

Name Of Book (s) with name of Publication:- NCERT

Recommended Books:- Pradeep Publications

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Periodic Test-1 (By July,2017)

Syllabus 30%

Ch. no.	Name of Chapter	Marks 20/2=10	Time frame	%
1	Chemical reactions and equations	4	April	20
6	Life Processes	6	April	30
12	Electricity	5	April	25
14	Sources Of energy	3	May	15
16	Management of natural resources	2	May	10

Activity

Month	Activity Description	Chapter/Topic	Marks (5)	Resources	Activity Details	Learning outcomes	Virtue
August	Notebook Assignment	1,2,3,5,6, 7,12,13,14,16	5	Text book,	Students to do various types of questions in note book.	1Inculcate writing and thinking skills.Knowledge , application ,skills	
August	Formation of Ionic compound	Metals and Non metals		Books and Websites	Students to show the formation of ionic bond as a result of the transfer of valence electron from one molecule to other in note book	To develop decisive power for correct judgement	Prudence

Periodic Test-2 (September 11-27 ,2017)

Syllabus 60%

Ch.no.	Name of Chapter	Marks 80	Time frame	%
1	Chemical reactions and equations	6	April	7.5
6	Life Processes	10	April	12.5
12	Electricity	10	April	12.5
14	Sources Of energy	6	May	7.5
16	Management of natural resources	5	May	6.25
2	Acid ,Bases and Salts	10	July	12.5
13	Magnetic effects of electric	10	July	12.5
3	Metals and Non metals	10	July	12.5
7	Control and coordination in plants	5	August	6.25
5	Periodic Classification of elements	8	August	10

Periodic Test-3 (By Nov., 2017)

Syllabus 30%

Ch. no.	Name of Chapter	Marks 20/2=10	Time frame	%
7	Control and coordination in animals	3	August	15
8	How do organisms reproduce	4	October	20
10	Light-Reflection and refraction	5	October	25
9	Heredity and Evolution	3	November/December	15
4	Carbon and its compound	5	November	25

Activity

Month	Activity Description	Chapter/Topic	Marks (10/2=5)	Resources	Activity Details	Learning outcomes	Virtue
Novemb er	Subject enrichment Activity	Practical's as per NCERT syllabus	5	Lab Manual	Students to perform practical's in laboratory and same to be written in practical files.	Conceptual Clarity of theoretical knowledge and its application in day to day life	

Novemb er	Notebook Assignment	4,7,8,9,10,11,15	(5)	Text Book	Students to do various types of questions in note book.	1Inculcate the writing and thinking skills.	
Novemb er	Formation of covalent compounds	Carbon and its compound		Books and websites,	Students to show the covalent bonding that involves the sharing of electron pairs between atoms in note book.	To develop collaborative approach Inculcates team spirit	Sharing

Pre-Board (January)100% Syllabus
Chapter weightage as per CBSE Directives /Norms.
Consult Curriculum 2017-18 for Topics

Teaching Strategies

S.No	Unit/Topics to be covered	Teaching Strategies
1.	Chemical reaction and equations	Ability based learning, Experiential Learning
2.	Life process	Lecture Strategies, . Audio / Visual Method, Blended learning
3.	Electricity	Experiential Learning, Hybrid Learning , Project Based Learning
4.	Sources of energy	Collaborative/Cooperative learning, Critical thinking, . Project Based Learning
5.	Management of natural resources	Critical thinking, Interdisciplinary Teaching, ,Service learning
6.	Acids ,bases and salts	Experiential Learning, . Learning By Doing Method, Hybrid Learning
7.	Magnetic effect of current	Experiential Learning, Flip Learning, . Learning By Doing Method
8.	Metals and nonmetals	Experiential Learning, Critical thinking ,Simulations
9.	Control and coordination	Lecture Strategies, Discussion Strategies, Interdisciplinary Teaching
10.	Periodic classification of elements	Humor in the classroom, Writing Assignments, Blended learning
11.	How do organisms reproduce	Lecture Strategies, Flip Learning
12.	Light -reflection and refraction	Experiential Learning, Hybrid Learning, . Learning By Doing Method, Project Based Learning
13.	Heredity and evolution	Lecture Strategies, . Online/ Hybrid Courses, story telling
14.	Carbon and its compounds	Lecture Strategies, Experiential Learning, Flip Learning, Writing Assignments
15.	Our Environment	Service Learning, Interdisciplinary Teaching, Hybrid Learning