



Subodh Public School Rambagh

Session: - 2017-2018

Subject- Science

Subject Code -086

Flyers-1

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.

Text book for class IX

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	Matter in our Surroundings	4	April	20
5	The fundamental unit of life	4	April	20
8	Motion	4	April	20
6	Tissues	4	May	20
9	Forces and laws of motion	4	May	20

Activity

Month	Activity Description	Chapter/Topic	Marks (5)	Resources	Activity Details	Learning outcomes	Virtue
August	Notebook Assignment	1,5,6,8,9,2,10,15 Chap 10(Gravitation)	5	Text book	Students to do various types of questions in note book.	1Inculcate writing and thinking skills.	
August	Techniques of cropping Patterns(Note Book)	Improvement in food Resources		Books and Websites	Modern techniques of cropping patterns through pictorial Depiction and details.	To develop decisive power for correct judgement and its practical applications.	Prudence

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

Syllabus 50%

Ch. no.	Name of Chapter	Marks (80)	Time frame	%
1	Matter in our Surroundings	8	April	10
5	The fundamental unit of life	8	April	10
8	Motion	12	April	15
6	Tissues	10	May	12.5
9	Forces and laws of motion	12	May	15
2	Is Matter around us pure	10	July	12.5
15	Improvement in food resources	12	July/August	15
10	Gravitation	8	August	10

Periodic Test-3 (By Nov., 2017)

Syllabus 30%

Ch. no.	Name of Chapter	Marks 20/2=10	Time frame	%
10	Flotation	2	October	10
11	Work and Energy	5	October	25
13	Why do we fall ill	4	October/November	20
4	Structure of the atom	4	November	20
3	Atoms and Molecules	5	November/December	25

Activity

Month	Activity Description	Chapter/Topic	Marks	Resources	Activity Details	Learning outcomes	Virtue
December	Subject enrichment Activity	Practicals as per NCERT syllabus	(10/2=5)	Lab Manual	Students to perform practicals in laboratory and same to be written in practical files.	Conceptual Clarity of theoretical knowledge and its application in day to day life.	
Oct-Dec.	Notebook Assignment	10,11,13,3,4,7,12,14	(5)	Text Book	Students to do various types of questions in note book.	1. Inculcate the writing and thinking skills.	
November	Valency Cards (Note book)	Atoms and Molecules		Books	Make cards with symbols and valences of the elements and radicals separately to form the formula of a compound	1. To develop collaborative approach 2. Inculcate team spirit	Sharing

Final Exam (March) 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.	Matter in our surroundings	Discussion Strategies, Experiential Learning
2.	The fundamental unit of life	Lecture Strategies, Experiential Learning, Flip Learning
3.	Motion	Project Based Learning, Lecture Strategies, Critical thinking
4.	Tissues	Lecture Strategies, Experiential Learning, Critical thinking
5.	Forces and laws of motion	Discussion Strategies, Project Based Learning
6.	Is Matter around us pure	Experiential Learning, Collaborative/Cooperative learning, Discussion Strategies
7.	Improvement in food resources	Lecture Strategies, . Inquiry Guided Learning, Interdisciplinary Teaching
8.	Gravitation	Lecture Strategies, Blended learning, Project Based Learning
9.	Work and energy	Project Based Learning, Experiential Learning, Flip Learning
10.	Why do we fall ill	Discussion Strategies, . Humor in the classroom, Service Learning, Interdisciplinary Teaching
11.	Structure of the atom	Discussion Strategies, Experiential Learning, Blended learning
12.	Atoms and molecules	Discussion Strategies, Games and simulations, Blended learning
13.	Diversity in living organism	Lecture Strategies, Interdisciplinary Teaching, Discussion Strategies
14.	Sound	Discussion Strategies, Experiential Learning Hybrid Learning
15.	Natural Resources	Collaborative/Cooperative learning, Critical thinking, Service learning

Grooming the future leaders