

SUMMERFIELDSSCHOOL, DLFCITY, PHASE-I, GURGAON

SESSION -2018-19

SYLLABUS DISTRIBUTION

TYPE OF ASSESSMENT: TERM-IPERIODIC TEST -1(July-August) DATE: 04-AUG-2018 CLASS: VIII SUBJECT: SCIENCE PRESCRIBED TEXT BOOKS: NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	SUBJECT ENRICHMENT ACTIVITY	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
Ch 1– Crop production and management	Board, reference books, models of various agricultural implements. Smart board	<ul style="list-style-type: none"> To study different traditional and modern irrigation techniques 	To appreciate the value of food available from the field to home	Students will learn about various steps in agriculture, environment friendly practices
Ch 2– Metals and non-metals	Board, reference books, different samples of metals and non-metals in chemistry lab. Smart board	<p style="text-align: center;"><u>Lab activity-</u></p> <ul style="list-style-type: none"> To study a displacement reaction in solution To study the reaction of metals with acid To study the reaction of metals with oxygen and water To study the reaction of non-metal with oxygen and water 	Relating the utility of a substance with its properties	Properties and uses of different metals and non-metals
Ch 3- Conservation of plants and animals	Board, reference books, information from internet. Smart board	<ul style="list-style-type: none"> Discussion on depletion of wild life How do we know that some species are in danger of disappearing? What would happen if you continuously cut trees? 	Conserve environment and avoid the use of animal products	Awareness about wildlife and environment
Ch 4 – Force and pressure	Board, reference books. Smart board	<ul style="list-style-type: none"> To observe that sliding friction depends on the nature of the surface in contact To study the variation of pressure exerted by liquid with depth 	To handle the pressure and stress in life and balance it	Types of forces, pressure and significance of atmospheric pressure

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TYPE OF ASSESSMENT: HALF YEARLY : September (8-SEP-2018)

CLASS:VIII

SUBJECT :SCIENCE

PRESCRIBED TEXT BOOKS:NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	SUBJECT ENRICHMENT ACTIVITY	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
All the Chapters covered in Periodic Test-1				
Ch 5 – Synthetic fibres and plastics	Board, reference books, different types of fibres. Smart board	<ul style="list-style-type: none"> Creating posters with catchy slogans to spread awareness for the judicious use of plastics. 	Sensitivity towards environment	Various types of synthetic fibres and their uses. Awareness about consequential impact on environment by using plastic
Ch 6 – Cell structure and functions	Board, reference books, samples and slides in bio lab. Smart board	<p style="text-align: center;"><u>Lab activity-</u></p> <ul style="list-style-type: none"> To study permanent slide of plant cell and view the structure under a compound microscope To study the cells of various shapes and sizes To study the differences between plant cell and animal cell 	Division of labour	Cell, its components and functions
Ch 7 – Coal and petroleum	Board, reference books and internet. Smart board	<ul style="list-style-type: none"> To collect the information on future fuels and efforts made in this direction. 	To use exhaustible resources judiciously	Different types of fossil fuels and exploring alternative eco friendly fuels
Ch 8 – Sound	Board, reference books, tuning fork. Smart board	<ul style="list-style-type: none"> To produce sound of different frequencies 	Correlating the type of sound produced with our state of mind	Different types of sounds produced by various musical instruments. Structure and functioning of human ear. Noise pollution

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Ch 9 – Friction	Board, reference books, ball bearings, rolling balls. Smart board	<ul style="list-style-type: none"> To observe that sliding friction depends on the nature of surface and the material Activities showing static, sliding and rolling friction. 	Excess or deficiency of anything is harmful. Friction a necessary evil	Different types of friction and ways to reduce and increase friction and understanding the needs for the same.
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TYPE OF ASSESSMENT : TERM-2 PERIODIC TEST -2(Jan-Feb) 31-Jan-2019 CLASS : VIII SUBJECT :SCIENCE PRESCRIBED TEXT BOOKS:NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	ASSOCIATED ACTIVITY	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
Ch 10 – Pollution of air and water	Board, reference books and internet. Smart board	Case study- <ul style="list-style-type: none"> Beauty of Taj Mahal-World heritage site matter of concern. 	Concern for valuable resources on earth	Identifying the pollutants and understanding their effects on environment. Various ways to protect our environment
Ch 11– Microorganisms: Friend and foe	Board, reference books and slides. Smart board	Lab activity- <ul style="list-style-type: none"> To study various micro organisms using permanent slides. To study the Nitrogen Cycle in nature 	Even the smallest of beings have a role to play	Types of microbes, uses of microbes and harmful effects of microbes Vaccination Food preservation.

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Ch 12– Light	Board, reference books, mirror strips and candles. Smart board	<u>Subject enrichment activity</u> <ul style="list-style-type: none"> To verify the laws of reflection by using a plane mirror and to study various characteristics of image formed by plane mirror. Establish a relationship between number of images formed and angle between two mirrors. Write the utility of this in our day to day life. 	Various stimuli received by a person are reflected back in the form of his behaviour	Laws of reflection, structure of human eye, defects of vision, eye care and nutrition
Ch 13– Stars and solar system	Board, reference books and model of solar system. Smart board	<ul style="list-style-type: none"> Role play for understanding planets 	Understanding the significance of symmetry, systematic and periodic functioning	Information on stars and planets. Detailed study of solar family and possibility of life on different planets

TYPE OF ASSESSMENT: ANNUAL EXAM (6-MARCH-2019)

CLASS:VIII

SUBJECT :SCIENCE

PRESCRIBED TEXT BOOKS:NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	ASSOCIATED ACTIVITY	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
Chapters covered in Periodic Test 2				
Ch 14– Reproduction	Board, reference books and charts. Smart board	<ul style="list-style-type: none"> How the sex of an unborn child is determined 	To appreciate the continuity of species	Understanding the concept and continuation of species by understanding male and female reproductive systems

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Ch 15– Reaching the age of adolescence	Board, reference books, charts and internet. Smart board	<p>Discussion on:</p> <ul style="list-style-type: none"> • Nutritional requirements • Hormonal changes and diseases related to hormonal imbalance, • Say ‘No’ to drugs • Physiological changes during adolescent period 	How to control one’s own anger and be more tolerant and calm and learn to accept the body changes with age	Awareness about the changes taking place in the body and their causes during adolescence. Endocrine glands, hormones released and functions
Ch 16– Chemical effects of electric current	Board, reference books, lab work. Smart board	<p>Lab activity-</p> <ul style="list-style-type: none"> • To study the process of electroplating copper on iron. • To study flow of current through various liquid samples (tap water, salt solution, lemon juice, distilled water) 	Value for conversion of energy from one type to another type	Understanding the basic requirement for conduction of current through liquids and the importance of electroplating
Ch 17 – Combustion and flame	Board, reference books, lab work. Smart board	<ul style="list-style-type: none"> • To study different zones of candle flame. • To study the conditions necessary for combustion. 	Save environment Use fossil fuels Judiciously	Types of combustion, structure of flame, fuel and calorific value and harmful products produced by burning fuels and fire fighting.
Ch 18 – Some natural phenomena	Board, reference books, polythene, woollen cloth. Smart board	<ul style="list-style-type: none"> • Discussion in the class about “Safety measures to be taken during lighting and earthquake”. 	Always be alert for unforeseen event	Different types of charges, causes of lightning and earthquake and protection against earthquake. Measuring intensity of earthquake. Destruction caused by earthquake and safety measures.