

SYLLABUS(FORTNIGHT), 2022-23

SCIENCE, CLASS VIII

TERM I

S.No.	Duration	Chapter	No. of teaching period	Syllabus covered	Pedagogy	Art integrated/Other Activity
1.	April 1 st to 15 th	Chapter 1(Crop Production and Management)	7	-Agricultural Practices -Basic Practices of Crop Production -Preparation of Soil -Sowing -Adding manure and fertilizers	-Technology oriented. -Brain storming. -Interactive -Experiential	-Draw pictures of some important agricultural implements along with their uses. -Soak some gram seeds in water and observe why some seeds float on water. This method can be used to select seeds for sowing.
2.	April 16 th to 30 th	Chapter 16(Light)	10	-Laws of reflection -Regular and diffused reflection -Multiple reflection -Dispersion of light -Human eye	-Problem solving -Interactive -Technology based -Practical approach -Brain storming	Draw well labeled diagram of human eye. Visit an eye specialist and find out different type of lenses used to cure defects of vision.
3.	May 1 st to 21 st	Chapter 2(Microorganisms: Friend and Foe)	10	-Microorganisms -Microorganisms and us -Friendly microorganisms -Disease causing microorganisms	-Observational -Experiential -Interactive -Technology oriented -Brain storming	-Make a list of communicable diseases.With the help of a G.O. show how the spread of Covid 19 has disturbed the whole world.
4.	July 1 st to 15 th	Symbols and formulae	4	- atoms, molecules,	-Experiential -Observational	Identify the chemical name

				<p>elements, compounds, mixture</p> <ul style="list-style-type: none"> - symbols of elements -ions -formula derivation 	<ul style="list-style-type: none"> -Technology based -Use of concrete objects 	and derive the formula of at least 5 commonly used substances.
5.	July 16 th to 31 st	Symbols + Chapter 4(Materials: Metals and Non Metals)	10	<ul style="list-style-type: none"> -Physical properties of metals and non metals -Chemical properties of metals and non metals -Uses of metals and non metals 	<ul style="list-style-type: none"> -Practical -Observational -Experiential -Brain storming 	-Make a list of metals and non metals used in our daily life. Also mention the property of each for their particular use.
6.	August 1 st to 15 th	Chapter 13(Sound)	6	<ul style="list-style-type: none"> -Sound is produced by a vibrating body -Sound needs a medium for propagation -Sound produced by humans 	<ul style="list-style-type: none"> -Experiential -Observational -Interactive -Concrete examples -Brain storming -Technology 	-Perform a simple activity to show that sound needs medium to propagate.
7.	August 16 th to 31 st	Chapter 6(Combustion and Flame)	10	<ul style="list-style-type: none"> -Combustion -Fire control -Types of combustion -Flame -Structure of a flame 	<ul style="list-style-type: none"> -Technology oriented. -Brain storming. -Interactive -Experiential 	- Observe the flame of the candle and identify its zones. Also perform an activity to show the release of unburnt carbon particles from middle zone of flame.
8.	September 1 st to 15 th	Revision for Term 1	1	-Revision	<ul style="list-style-type: none"> -Interactive -Problem solving 	

Periodic test 1

Chapter 1(Crop Production and Management)

Chapter 16(Light)

Subject Enrichment Activity 1(Art integrated activity)

Chapter 7(Conservation of Plants and Animals)

Multiple Assessment 1

Notebook + oral test + Quiz

Portfolio 1

HHW(Chapter 17: Stars and The Solar System) + Class response+ Discipline + Attendance

Half yearly: Chapters: 1,2,4,6,13,16 & Symbols and Formulae

TERM II

S.NO.	Duration	Chapter	No. of teaching period	Syllabus covered	Pedagogy	Art integrated/Other Activity
1.	Sep. 16 th to 30 th	chapter 9 (Reproduction in Animals)	3	-Uses of metals and non metals -Modes of reproduction -Sexual reproduction	-Technology oriented. -Brain storming. -Interactive -Experiential	- Observe the flame of the candle and identify its zones. Also perform an activity to show the release of unburnt carbon particles from middle zone of flame.
2.	Oct. 1 st to 15 th	chapter 9 (Reproduction	7	-Viviparous and oviparous	-Observational -Experiential	-With the help of a well

		in Animals) + Chapter 10(Reaching the Age of Adolescence)		animals -Asexual reproduction -Adolescence and puberty -Changes at puberty -Secondary sexual characters -Hormones	-Interactive -Technology oriented -Brain storming	labeled diagram, show the positions of endocrine glands in human body.
3.	Oct. 16 th to 31 st	Chapter 11(Force and Pressure)	7	-Force -Exploring forces -Contact forces -Non contact forces -Pressure	-Experiential -Mathematical Application -Interactive -Observational -Concrete examples -Technology -Brain storming	-Paste some pictures from real life experiences which are based on inverse relationship between force and pressure.
4.	Nov. 1 st to 15 th	Chapter 5(Coal and Petroleum)	7	-Coal -Petroleum -Refining of petroleum -Natural gas -Some natural resources are limited.	-Experiential -Observational -Technology based -Use of concrete objects	-On the map of India, mark the places where coal, petroleum and natural gas are found.
5.	Nov. 16 th to 30 th	Chapter 8 (Cell: Structure and Functions)	10	-The cell -Cell structure and function -Parts of cell Comparison between plant and animal cells.	-Experiential -Technology oriented -Brain storming -Interactive	-Draw the diagram labeling the white and yellow part of the hen's egg.
6.	Dec. 1 st to 15 th	Chapter 3 (Synthetic Fibres and Plastics) + Revision	4	-Synthetic fibres -Types of synthetic fibres -Characteristics of synthetic fibres	-Experiential -Observational -Interactive -Concrete examples -Brain storming -Technology	With the help of a poster, show how the excessive use of plastics has affected the environment.

7.	Dec. 16 th to 31 st	Chapter 3 (Synthetic Fibres and Plastics)	7	-Plastics -Plastics and the Environment	-Interactive -Experiential -Technology based -Explanatory -Brain storming	-Perform a simple activity at home to show the evolution of hydrogen and oxygen gas by the process of electrolysis of water. Also draw a well labeled diagram for the same.
8.	Jan. 1 st to 15 th	Chapter 14 (Chemical Effects of Electric Current)	3	-Chemical effects of electric current	-Technology based -Experiential -Practical -Interactive -Diagrammatic explanation	Show the chemical change taking place in potato due to passage of electricity.
9.	Jan. 16 th to 31 st	Chapter 14 (Chemical Effects of Electric Current)	9	-Electroplating -applications of electroplating	-Experiential -Practical -Concrete examples -Interactive -Discussion -Technology based	
10.	Feb. 1 st to 15 th	Chapter 15 (Some Natural Phenomena) + Revision for Annual Exam	6	-Lightning -Charging by rubbing -Types of charges and their interaction All the chapters of Term 2	-Problem solving -Individual attention -Remedial	-Make a sketch to show how lightning is caused.

Periodic test II

Chapter 9 (Reproduction in Animals)

Chapter 10 (Reaching the Age of Adolescence)

Chapter 11 (Force and Pressure)

Subject Enrichment Activity II (Art Integrated Activity)

Chapter 18 (Pollution of Air and Water)

Multiple Assessment 2

Notebook + oral test + Quiz

Portfolio 2

PW: Chapter 12 (Friction) + Class response + Discipline + Attendance

Annual Exam: Chapters: 3,5,8,9,10,11,14,15