



CHRIST SCHOOL

Bengaluru - 560029

PROGRAMME OF WORK FOR THE YEAR -2019-20

CLASS: VIII

SUBJECT: SCIENCE

PHYSICS

MONTH	TOPIC	ACTIVITY
JUNE	1. Describing motion <ul style="list-style-type: none">➤ Motion➤ Distance and displacement➤ Speed and velocity➤ Acceleration➤ Equations of motion➤ Graphical representation of motion.	Solve the problems based on motion.
	Formative Assessment-1	
JULY	2. Force and Newton's laws of motion <ul style="list-style-type: none">➤ Force and types of force➤ Newton's 1st law of motion➤ Newton's 2nd law of motion➤ Newton's 3rd law of motion REVISION	
AUGUST	Formative Assessment-2	
	3. Energy and its forms <ul style="list-style-type: none">➤ Work➤ Kinetic energy➤ Relationship between mass, velocity and kinetic energy	
SEPTEMBER	Energy and its forms (cont...) <ul style="list-style-type: none">➤ Potential energy➤ Relationship between mass, height and potential energy➤ Change of energy➤ Power Summative Assessment-1	
OCTOBER	4. World of sounds <ul style="list-style-type: none">➤ Sound	

	<ul style="list-style-type: none"> ➤ Production of sound Nature of sound 	
NOVEMBER	World of sounds (cont...) <ul style="list-style-type: none"> ➤ Description of a sound wave ➤ Echo ➤ Noise and its hazards 	Write a short note on noise and its hazards. Paste pictures of some hearing aid.
	Formative Assessment-3	
DECEMBER	5. Heat <ul style="list-style-type: none"> ➤ Heat and temperature ➤ Effects of heat ➤ Thermometer Temperature scales and its conversion	
JANUARY	6. Our colourful world <ul style="list-style-type: none"> ➤ Light ➤ Reflection and laws of reflection ➤ Spherical mirrors- convex and concave ➤ Refraction ➤ Total internal reflection and its effects ➤ Dispersion of light <p style="text-align: center;">REVISION</p>	
FEBRUARY	Formative Assessment-4	
	7. Earth and beyond <ul style="list-style-type: none"> ➤ The earth ➤ The celestial sphere ➤ The solar system ➤ Stars and its pattern 	
	REVISION	
MARCH	Summative Assessment-2	

CHEMISTRY

MONTH	TOPIC	ACTIVITY
JUNE	1. Structure of an atom <ul style="list-style-type: none"> ➤ Atomic theory ➤ Fundamental particles of an atom and its discovery ➤ Rutherford's experiment ➤ Bohr atom model ➤ Atomic number and mass number 	Make a model of atom showing electron distribution
	Formative Assessment-1	

JULY	8. Atoms and molecules <ul style="list-style-type: none"> ➤ Atomic mass and relative atomic mass ➤ molecule ➤ molecular mass and relative molecular mass ➤ mole concept ➤ valency of an element ➤ percentage composition of a compound 	Solve the problems based on percentage composition
AUGUST	Formative Assessment-2	
	9. chemical reactions and their types <ul style="list-style-type: none"> ➤ physical change and chemical change ➤ chemical equations ➤ types of chemical reactions 	
SEPTEMBER	Chemicals in our daily life <ul style="list-style-type: none"> ➤ chlorine- preparation, properties and uses 	
	Summative Assessment-1	
OCTOBER	Chemicals In our daily life(continue) <ul style="list-style-type: none"> ➤ Sulphur dioxide-preparation, properties and uses ➤ Sodium bicarbonate ➤ Soaps and detergents 5. Water <ul style="list-style-type: none"> ➤ Purification of water 	
NOVEMBER	Water(continue) <ul style="list-style-type: none"> ➤ Chemical properties of water ➤ Action of water on metals ➤ Action of steam on non-metals ➤ Reaction of water with non-metallic oxides ➤ Reaction of water with metallic oxides ➤ Deliquescent and efflorescent substances 	
	Formative Assessment-3	
DECEMBER	Water (cont...) <ul style="list-style-type: none"> ➤ Hard water and soft water 	

	<ul style="list-style-type: none"> ➤ Methods to remove hardness of water ➤ Behaviour of soap with hard water and soft water 	
JANUARY	States of matter <ul style="list-style-type: none"> ➤ Three states of matter and its properties ➤ Mixture and types of mixtures Properties of mixtures	Class test
FEBRUARY	Formative Assessment-4	
	States of matter (cont...) <ul style="list-style-type: none"> ➤ solution ➤ suspension and its properties ➤ colloidal solution and its properties ➤ classification of colloids ➤ Tyndall effect ➤ Brownian movement 	
MARCH	REVISION	
	Summative Assessment-2	

BIOLOGY

MONTH	TOPIC	ACTIVITY
JUNE	CHAPTER 1 – Natural resources 1.1 Water 1.2 Soil 1.3 Forests 1.4 Wildlife 1.5 Fossil fuels 1.6 Mineral resources CHAPTER 2- Our Environment 2.1 Earth – A unique planet 2.2 Concept of Biosphere 2.3 Levels of organizations 2.4 Types of Ecosystem 2.5 Components of Ecosystem (till pg no.16)	
	Formative Assessment-1	
JULY	CHAPTER 2 – Our Environment continued. 2.6 Energy flow in an ecosystem 2.7 Ecological pyramids 2.8 Biomagnification	Differences between Plant cell and Animal cell (using model)

	CHAPTER 3 – Study of Cells 3.1 Discovery of the cell 3.2 Membranous organelles 3.3 Non membranous organelles	
AUGUST	CHAPTER 4 – Classification of Living organisms 4.1 Contribution of Ancient Scientists 4.2 Binomial nomenclature 4.3 Systematic position 4.4 Systems of classification 4.5 Ancient system of classification 4.6 Natural system of classification 4.7 Four kingdom classification 4.8 Five kingdom classification	
	Formative Assessment-2	
SEPTEMBER	The World of Microbes 5.1 Louis Pasteur, SEPTEMBER; Swan neck flask experiment, Robert Koch 5.2 Where do microorganisms live? 5.3 Bacteria 5.4 Viruses 5.5 Protozoa 5.6 Structure of Amoeba, Algae 5.7 Fungi; structure of aspergillus, structure of yeast, common diseases Caused by microbes.	
	Summative Assessment-1	
OCTOBER	CHAPTER 6 – Food and its constituents (till pg no. 76) 6.1 General functions of food 6.2 Energy giving food 6.3 Functions and principal sources of carbohydrates 6.4 Functions and principal sources of Lipids 6.5 Functions and principal sources of Proteins 6.6 Functions and principal sources of Vitamins and minerals 6.7 Functions and principal	

	sources of roughage	
NOVEMBER	6.8 Function of water in our body 6.9 Test for major constituents of food CHAPTER 7- Nutrition and Respiration (till pg no. 100) 7.1 Nutrition 7.2 Photosynthesis 7.3 Heterotrophic nutrition 7.4 Nutrition in animals 7.5 Nutrition in man 7.6 Respiration	Qualitative analysis for carbohydrates, proteins and lipids.
	Formative Assessment-3	
DECEMBER	CHAPTER 7- Nutrition and Respiration (continued) 7.7 Respiration in Amoeba 7.8 Respiration in Cockroach 7.9 Respiration in Humans CHAPTER 8: Reproduction in higher plants 8.1 Gamete formation 8.2 Pollination 8.3 Fertilization and development	Dissection of typical flower
JANUARY	CHAPTER 9 – Food Production: Soil and Water management 9.1 Soil management 9.2 Bio fertilizers 9.3 Organic and chemical fertilizers 9.4 Soil conservation 9.5 Water management 9.6 Green Revolution in India	
	Formative Assessment-4	
FEBRUARY		
	CHAPTER 10 – Evolution of life 10.1 Origin of Life 10.2 Organic evolution 10.3 Lamarckism 10.4 Darwinism	Group Discussion on Lamarckism and Darwinism
MARCH	REVISION	
	Summative Assessment-2	