

SYLLABUS CHART- STD IX-2017-2018- PHYSICS

MONTH	WEEK	TOPIC	CONTENT
JUNE	1	Measurement and measuring instruments	Accurate measurements- Characteristics of measuring instruments
	2		Vernier calipers
	3		Mass and weight and measuring time
	4		Simple pendulum- evaluation
JULY	1	MOTION	Speed-velocity and acceleration-graphical representation of motion
	2		Equations of motion
	3		Circular motion
	4		Evaluation
AUGUST	1	LIQUIDS	Pressure in liquids-Relative density- Archimedes' principle
	2		Applications of Archimedes' principle
	3		Buoyancy – Hydrometers
	4		Evaluation
SEPTEMBER	1		Revision
OCTOBER	1	SOUND	Production of sound-propagation of sound
	2		Longitudinal and transverse waves
	3		Reflection of sound
	4		Echo- Reverberation-Range of hearing
NOVEMBER	1		Application of ultra sound-
	2		Doppler effect

	3		Sonar- Doppler effect- Applications
DECEMBER	1		Revision
JANUARY	1	WORK POWER AND ENERGY	Work- Definition-Energy-types of energy
	2		Kinetic energy- Potential energy- Derivation-
	3		Law of conservation of energy-Proof- Rate of doing work
	4		Power- Unit of power- evaluation
FEBRUARY	1	HEAT	Definition of heat and temperature-Thermal capacity
	2		Specific heat capacity—factors which influence quantity of heat
	3		Change of state- melting and boiling point
	4		Kelvin’s scale of temperature-Gas laws
MARCH	1		Gas equation-evaluation-
	2		Revision

Std IX CHEMISTRY SYLLABUS 2016 -2017

MONTH	WEEK / DATES	TOPIC / UNIT	ASSIGNMENT / EVALUATION
JUNE	I (1 to 3 rd)	IS MATTER AROUND US PURE ?	
JUNE	II (6 th to 10 th)	CLASSIFICATION OF MATTER	Exercises , C.W
JUNE	III (13 th to 17 th)	PURE SUBSTANCES- ELEMENTS,COMOUNDS	TEST
JUNE	IV (20 th to 24 th)	TYPES OF MIXTURES,DIFFERENCES BETWEEN COMPOUNDS AND MIXTURES	C.W ACTIVITY - DIAGRAMS
JUNE	V (27 th to 30 th)	SEPARATION OF MIXTURES	EXERCISES ,C.W
JULY	I (1 st to 8 th)	ATOMIC STRUCTURE - D ALTON’S THEORY	EXERCISES , C.W

JULY	II (11 th to 15 th)	RUTHERFORD'S EXPERIMENT	
JULY	IV (18 th to 22 nd)	RUTHERFORD'S MODEL, BOHR'S MODEL, COMPOSITION OF NUCLEUS	Test
JULY	V (25 th to 29 th)	ISOTOPES AND THEIR USES	C.W
AUGUST	I (1 st to 5 th)	ELECTRONIC CONFIGURATION OF ATOMS	DRAWING DIAGRAMS ACTIVITY
AUGUST	II (8 th to 12 th)	ELECTRONIC CONFIGURATION OF ATOMS	
AUGUST	III (16 th to 19 th)	REVISION	
AUGUST	IV (22 nd to 31 st)	REVISION	
SEPTEMBER	I, II, III (1 to 23 rd)	SA1 Exams	
OCTOBER	I (3 rd to 7 th)	CHEMICAL EQUATIONS – IONS. TYPES OF IONS	C.W
OCTOBER	II (10 th to 14 th)	TYPES OF IONS	C.W, EXERCISES
OCTOBER	III (17 th to 21 st)	WRITING CHEMICAL FORMULA	ASSIGNMENT
OCTOBER	IV (24 th to 31 st)	WRITING CHEMICAL FORMULA	C,W
NOVEMBER	I (1 st to 4 th)	CHEMICAL EQUATION	EXERCISES
NOVEMBER	II (7 th to 11 th)	BALANCING OF CHEMICAL EQUATIONS	EXERCISES
NOVEMBER	III (14 th to 18 th)	BALANCING OF CHEMICAL EQUATIONS	C.W
NOVEMBER	IV (21 st to 25 th)	REVISION	
NOVEMBER	V (28 th to 30 th)	REVISION	
DECEMBER	I - IV (1 st to 31 st)	SA 2 EXAMS	
JANUARY	I (2 nd to 6 th)	PERIODIC CLASSIFICATION OF ELEMENTS	
JANUARY	II (9 th to 11 th)	EARLIER ATTEMPTS OF CLASSIFICATION	Problems in C.W
JANUARY	III (17 th to 20 th)	MENDELEEV'S PERIODIC TABLE	Test
JANUARY	IV (23 rd to 27 th) V (30 th , 31 st)	MENDELEEV'S PERIODIC TABLE	C.W

FEBRUARY	I (1 st to 3 rd)	PHYSICAL PROPERTIES OF METALS AND NON-METALS	Exercises
FEBRUARY	II (6 th to 10 th)	CHEMICAL PROPERTIES OF METALS AND NON-METALS, ALLOYS	Exercises, C.W
FEBRUARY	III (13 th to 17 th)	CHEMICAL BONDS – OCTET RULE	Exercises, C.W, Test
FEBRUARY	IV (20 th to 28 th)	IONIC BOND – SODIUM CHLORIDE, MAGNESIUM CHLORIDE	
MARCH	I (1 st to 3 rd)	COVALENT BOND - HYDROGEN, CHLORINE, WATER AND AMMONIA MOLECULES.	MODELS OF MOLECULES - ACTIVITY
MARCH	II (6 th to 10 th)	DIFFERENCES BETWEEN IONIC AND COVALENT BONDS, COMPOUNDS	C.W
MARCH	III (13 th to 17 th)	COORDINATE COVALENT BOND	C.W
MARCH	IV (20 th to 24 th)	REVISION	
MARCH	V (27 th to 31 st)	REVISION	
APRIL	I – III (3 rd to 21 st)	SA 3 EXAMS	

**VANAVANI MATRICULATION HIGHER SECONDARY SCHOOL
SYLLABUS FOR THE YEAR 2016 - 2017**

STD: IX

SUBJECT: BIOLOGY

MONTH	WEEK	LESSON	CONTENT
JUNE	1st	ANIMAL KINGDOM	TAXONOMY- INVERTEBRATES AND VERTEBRATES
	2nd	ANIMAL KINGDOM	ASEXUAL REPRODUCTION
	3rd	ANIMAL KINGDOM	SEXUAL REPRODUCTION
	4th	ANIMAL KINGDOM	SEXUAL REPRODUCTION
JULY	1st	ANIMAL KINGDOM	FERTILIZATION
	2nd	ANIMAL KINGDOM	YOUNG ONES TO ADULTS
	3rd	CELLS	PROKARYOTIC AND EUKARYOTIC CELLS
	4th	CELLS	STRUCTURAL ORGANIZATION OF A CELL
AUGUST	1st	CELLS	CELL MEMBRANE AND CELL WALL
	2nd	CELLS	CELL ORGANELLES
	3rd	CELLS	CELL DIVISION
	4th	CELLS	DIFFUSION OF SUBSTANCES
SEPTEMBER	1st	SA I - REVISION	
	2nd	SA I - EXAM	
	3rd	SA I - EXAM	
	4th	HOLIDAYS	
OCTOBER	1st	IMPROVEMENT IN FOOD RESOURCES	IMPROVEMENT IN CROP YIELDS , NUTRIENT MANAGEMENT, PROTECTION FROM PESTS AND DISEASES
	2nd	IMPROVEMENT IN FOOD RESOURCES	HYBRIDIZATION IN PLANTS AND ANIMALS , ANIMAL HUSBANDRY, POULTRY FARMING
	3rd	IMPROVEMENT IN FOOD RESOURCES	PISCICULTURE , AQUACULTURE AND APICULTURE
	4th	HUMAN BODY ORGAN SYSTEM	INTEGUMENTORY , MUSCULAR, SKELETAL SYSTEMS

NOVEMBER	1st	HUMAN BODY ORGAN SYSTEM	DIGESTIVE , CIRCULATORY AND URINARY SYSTEMS
	2nd	HUMAN BODY ORGAN SYSTEM	RESPIRATORY AND REPRODUCTIVE SYSTEMS
	3rd	BIO-GEO CHEMICAL CYCLE	WATER CYCLE , NITROGEN CYCLE
	4th	BIO-GEO CHEMICAL CYCLE	, CARBON AND OXYGEN CYCLE
DECEMBER	1st	SA II - REVISION	
	2nd	SA II - EXAM	
	3rd	SA II - EXAM	
	4th	HOLIDAYS	
JANUARY	1st	STRUCTURE AND PHYSIOLOGICAL FUNCTIONS OF PLANTS	PLANT CELL- CLASSIFICATION OF TISSUES
	2nd	STRUCTURE AND PHYSIOLOGICAL FUNCTIONS OF PLANTS	PLANT FUNCTIONS, PHOTOSYNTHESIS
	3rd	STRUCTURE AND PHYSIOLOGICAL FUNCTIONS OF PLANTS	TRANSPIRATION, RESPIRATION
	4th	STRUCTURE AND PHYSIOLOGICAL FUNCTIONS OF PLANTS	MOVEMENTS IN PLANTS , TRANSPORTATION
FEBRUARY	1st	ADDICTION AND HEALTHY LIFESTYLE	INTRODUCTION- ADDICTION
	2nd	ADDICTION AND HEALTHY LIFESTYLE	ALCOHOLISM
	3rd	ADDICTION AND HEALTHY LIFESTYLE	SMOKING CIGARETTES AND TOBACCO,DRUG ABUSE
	4th	ADDICTION AND HEALTHY LIFESTYLE	TREATMENT OF ADDICTION, HEALTHY LIFESTYLE
MARCH	1st	POLLUTION AND OZONE DEPLETION	AIR POLLUTION AND THEIR EFFECTS, WATER POLLUTION AND THEIR EFFECTS

	2nd	POLLUTION AND OZONE DEPLETION	SOIL POLLUTION , RADIOACTIVE POLLUTION AND GLOBAL WARMING
	3rd	POLLUTION AND OZONE DEPLETION	GREEN HOUSE EFFECT AND OZONE DEPLETION
	4th	SA III - REVISION	
APRIL	1st	SA III - REVISION	
	2nd	SA III - EXAM	
	3rd	SA III - EXAM	
	4th	HOLIDAYS	