

SYLLABUS 2019-20

CLASS - 11

Content

Biology

Maths

Physics

Chem

English

Computer

Maths- 11th (Sci)

S.N.	Month	Topic	Sub Concept	Activity
1	June	(Sem-1 Textbook) Ch -1 Sets Ch - 2 Relations & Functions	-	-
2	July	Ch - 3 Trigonometric Functions Ch - 5 Complex Numbers and Quadratic Equations Ch - 6 Linear Inequalities		
3	Aug	Ch - 7 Permutations and Combinations Ch - 8 Binomial Theorem		
4	Sep	Ch - 9 Sequences and series Ch - 4 Principle of Mathematical Induction		
5	Oct	Ch - 4 PMI REvision		
6	Nov	Ch - 10 Straight lines Ch - 11 Conic Sections		
7	Dec	Ch - 11 Conic sections (Continue) Ch - 12 Introduction to 3-D Geometry		
8	Jan	Ch - 13 Limits & Derivatives Ch - 14 Mathematical Reasoning		
9	Feb	Ch - 15 Statistics Ch - 16 Probability		
10	March	Revision for exam		

Chemistry-11

S.N.	Month	Topic	Sub Concept	Activity
1	June	- Ch-1 : Some basic concepts of chemistry	<ul style="list-style-type: none"> - Importance of chemistry - Nature of matter - Properties of matter & their measurement. - Uncertainty in measurement- Laws of chemical combination- Dalton's Atomic theory- Atomic & molecular masses - Percentage composition - Stoichiometry & Stoichiometric calculations 	-Video & Lab
2	July	Ch-2 Structure of Atom Ch-3 Classification of Elements & periodicity in properties	<ul style="list-style-type: none"> - Subatomic particles - Atomic models - Bohr's model of Atom- Quantum mechanical model of Atom - Why do we need to classify Element ? - Genesis of periodic classification - Modern periodic classification & Table - Nomenclature of Elements with Atomic no > 100 - \bar{e} configuration of Elements & periodic table- Electron configurations & Types of S,P,d,f block- Trends in properties 	-Video & Lab -Video & Lab
3	Aug	Ch-4 Chemical bonding & molecular structure	<ul style="list-style-type: none"> - Kossel- Lewis Approach - Ionic bond- Bond parameters - VSEPR theory- valence bond Theory- hybridisation- Molecular orbital theory- Hydrogen bonding 	-Video & Lab
4	Sep	Ch-5 States of matter Ch-8 Redox Reaction	<ul style="list-style-type: none"> - Intermolecular Forces - Thermal Energy - Intermolecular forces vs thermal interactions- The gaseous state- The Gas laws- Ideal gas Equation- Kinetic molecular theory of gases- Behaviour of real gases & deviation- Liquifaction of Gases- Liquid state. - Classical Idea- Redox in terms of \bar{e} transfer Reactions - Oxidation no- Redox & electrode process 	-Video & Lab

Chemistry-11

S.N.	Month	Topic	Sub Concept	Activity
5	Oct	Ch-7 Equilibrium	<ul style="list-style-type: none"> - Equilibrium in physical process - Equilibrium in chemical processes - Law of chemical Equilibrium & Equilibrium constant 	- Video & lab
6	Nov	Ch-6 Thermodynamics	<ul style="list-style-type: none"> - Thermodynamic state - Applications- measurement of $\Delta U < \Delta H$: Calorimetry- Enthalpy change, $\Delta_r H$ of a Reaction- Enthalpy for different types of Reaction - Spontaneity- Gibbs Energy & Equilibrium - Homogeneous Equilibria - Heterogeneous Equilibria - Applications - Relations - Factors - Ionic Equilibrium - Acid, base & salts- Ionization - Buffer solutions - Solubility Equilibria 	- Video & lab
7	Dec	Ch-9 Hydrogen Ch-10 S-block Elements	<ul style="list-style-type: none"> - Position of Hydrogen - Dihydrogen- Preparation - Properties- Hydrides- water - Hydrogen peroxide - Heavy water- Dihalogen as a Fuel - - General characteristics - Anomalous properties - Some important compounds - Biological importance in Group 1 & Groups 	- Video & lab - Video & lab
8	Jan	Ch-12 Organic chemistry - some basic principal & Techniques Ch-13 Hydrocarbon	<ul style="list-style-type: none"> - General Introduction - Tetravalence of carbon - Structural Representations - Classification- Nomenclature - Isomerism - Fundamental concepts in organic Reaction mechanism- methods of purification - Qualitative Analysis- Quantitative Analysis - Classification - Alkanes - Alkenes- Alkynes- Aromatic Hydrocarbons - Carcinogenicity & Toxicity 	- Video & lab - Video & lab

Chemistry-11

S.N.	Month	Topic	Sub Concept	Activity
9	Feb	Ch-11 P-block Elements Ch-14 Environmental chemistry	<ul style="list-style-type: none"> - Group 13 Elements: The Boron family - Important Trends & Anomalous properties of Boron - some important compounds of Boron - Uses - Group of 14 elements - Important trends & Anomalous behaviour of carbon - Allotropes of carbon - Some important compounds of carbon & silicon - Environmental pollution - Water pollution- Soil pollution - Industrial waste- Strategies to control Environmental pollution- Green Chemistry 	<ul style="list-style-type: none"> - Video & lab - Video & lab - Video & lab
10	March	-	- Revision & Doubt solving	
11	April	-	- Revision & Doubt solving	

English-11

S.N.	Month	Topic	Sub Concept	Activity
1	June	- Ch-1 The Portrait of Lady Poem- The photograph - Data Analysis	- Reading comprehension (unseen) Character sketch (grand mother) - Meaning of poem, Central idea of poem, Poetic devices used in poem - Refer the diagram and statement	- Meaning of the text expressions - Provide its information
2	July	- Ch-2 Were not afraid to die - Ch-3 Discovering Tut - Sup-1 The summer of the Beautiful Tenses Direct and indirect speech Email	- List the steps taken by the captain to protect the ship from rough weather. Reading Egypt traditions, rituals and funerary practices - Character sketch of mourad and Aram - Explaining concept of tenses and practise exercise for transforming direct into indirect and vice versa. - Explaining components of email writing	- Paragraph writing on Historical facts about water disaster - Write a note on 'Mummy's - Speech writing on "The life and culture of tribal people - Format
3	Aug	Poem- The Laburnum Top Ch-4 Landscape of the Soul Sup -2 The Address Essay Note making from speech Advertisement	- Central idea of poem, rhyming words and scheme of poem - Reading comprehension, Replacing words with synonyms - Reading comprehension, writing in detail on central character of prose - Explaining types of essay and practising with topics - Explaining concepts of note making and advertisement	- Diary writing about a day you have enjoyed beauty of nature - Information on world war I - Preparing advertisement on different topic / subject
4	Sep	Poem - The Voice of the Rain Ch-5 The Ailing planet Sup-3 Ranga's marriage Active and passive Voice - Precise writing - Report writing	- Meaning of poem, Recitation of Poem - Reading comprehension - Boy returns to village from Bangalore, villagers flood to see him - Explaining concept of subject and object and how the way we place them in sentence changes voice of sentence. - Shorten the paragraph - Write content	- Write poem on 'Rain' - Discussion of the problem 'overpopulation' - Preparing a report on Teacher's day celebration in school
5	Oct	Sup-4 Albert Einstein Transformation of Sentences Letter writing	- Reading meaning, life story - Explaining rules of transformation of sentences - Explaining components of letter writing	- Biography of Albert Einstein - format

English-11

S.N.	Month	Topic	Sub Concept	Activity
		Article writing	- Explaining concept of it	- Select a newspaper article and do it's sub-titling
6	Nov	- Poem Childhood Figure of Speech Unseen Poetry and prose Comprehension	- Explaining central idea of poem - Practise exercise - Find answers	- Write a short poem on any phase of your life
7	Dec	Ch-6 The Browning Version Ch-7 The Adventure Sup-5 Mother's Day Transformation of sentences Essay writing Application writing	- Conversation between a lower fifth-grade student, Taplow and Mr Frank - Reading comprehension, Writing in detail on central character of prose - Role play - Explaining different types of sentences and their transformation - Resume / Biodata - Explaining components of job application	- A class debate to increase confident and understanding - Write an adventurous incident - Format
8	Jan	Sup-6 The Ghat of the only world Rectification of error Poem Father To Son Punctuate the paragraph Poem paraphrasing	- Inner meaning of life - Explaining concept with practise exercise of rectification of error - Follow rules - Jot down the inner meaning/theme	- Write a soulful life story - Diary writing
9	Feb	Ch-8 Silk Road Sup-7 Birth Idioms and Phrases Email writing Precise writing Speech writing	- Reading Comprehension - Explaining idioms and phrases - Follow format - Delivery of dialouge	- Using internet prepare a project on the life of Hellen Keller or Sudha chandran
10	March	Sup-8 The Tale of the Melon City	- Rading Comprehension	- Write hillarious story

GSEB STD-11 BIOLOGY

Sr.No	Month	Topic	Sub Topic	Activity
1	June	<p>Ch-8 Cell: The Unit of life</p> <p>Ch-9 Cell cycle & Cell Division</p> <p>Ch. 10 Biomolecules</p>	<p>- What is a cell? -Cell theory -An overview of cell -Prokaryotic cell & Eukaryotic cell</p> <p>-cell Cycle -M Phase -Significance of Mitosis -Meiosis -Significance of Meiosis -How to analyze chemical composition? -primary & Secondary Metabolites</p> <p>-Biomacromolecules -protein -Poly saccharine -Nucleic Acid -Structure of Protein -Nature of bond in a polymer -Concept of Metabolism --Metabolic Basis for Living -The Living State -Enzyme</p>	<p>Practical in Biology Lab</p> <p>& Videos</p>
2	July	<p>Ch 10 (cont.) Ch.1 The Living World</p> <p>Ch.2 Biological Classification</p>	<p>-What is "Living? -Diversity in the Living World -Taxonomic categories -Taxonomical Aids</p> <p>-Kingdom Monera -Kingdom Protista -kingdom Fungi -Kingdom Plantae Kingdom Animalia -Viruses, Viroids and Lichens -Algae</p>	<p>Practical in Biology Lab</p> <p>& Videos</p>
3	Aug	<p>Ch 2 (Cont.) Ch.3 Plant Kingdom</p> <p>Ch.4 animal Classification</p> <p>Ch.5 Morphology of Flowering Plant</p>	<p>-Bryophytes -Pteridophytes -Gymnosperms -Angiosperms -Plant Life Cycles & Alternation of Generation</p> <p>Basis of Classification -Classification of Animals</p> <p>- The root -The leaf -The Inflorescence -The Flower -The Fruit -The seed -Description of a Typical Flowering Plant -Description Of some important Families</p>	<p>Practical in Biology Lab</p> <p>& Videos</p>

4	Sep	Ch.6 Anatomy of Flowering Plant Ch 7 Structural Organization in Animals	-The Tissues -The Tissue System -Anatomy of Dicot & Monocot plant Animal Tissues -Organ & Organ System -Earthworm -Cockroach	Practical in Biology Lab & Video
5	Oct	Ch 11 Transport in plants Ch 12 Mineral Nutrition	-Means of Transport -plant- water relations -Long Distance transport of water -Transpiration -Uptake & Transport of Mineral Nutrients - Phloem Transport : Flow from source to sink -Methods to study the Mineral Requirements of Plants -Essential Mineral Elements -Mechanism of Absorption of Elements -Translocation of solutes -soil as Reservoir of Essential Elements -Metabolism of Nitrogen	Practical in Biology Lab & Video
6	Nov	Ch.13Photosynthesis in higher plants Ch 14 Respiration in Plants	-What do we know? -Early Experiments -Where does photosynthesis take place? -How many pigment are involved in photosynthesis? -What is Light Reaction? -The Electron Transport -Where are the ATP & NADPH used? -The C4 Pathway -Photorespiration -Factor affecting Photosynthesis -Do Plants Breathe? -Glycolysis -Fermentation -aerobic Respiration -The Respiratory Balance sheet -Amphibolic Pathway -Respiratory Quotient	Practical in Biology Lab & Video
7	Dec	Ch 15 plant Growth & Development Ch 16 Digestion & Absorption Ch 17 Breathing &	-Growth - Differentiation & Redifferentiation -Development -Plant Growth Regulators -Photoperiodism -Vernalisation -Digestive System -Digestion of food -Absorption of Digested Products -Disorders of Digestive system -Respiratory Organs	Practical in Biology Lab & Video Practical in

		Exchange of gases	<ul style="list-style-type: none"> -Mechanism of Breathing -Exchange of Gases -Transport of Gases -Regulation of respiration -Disorders of Respiratory System 	Biology Lab & Video
8	Jan	<p>Ch.18 Body Fluids & Circulation</p> <p>Ch 19 Excretory Products & their Elimination</p>	<ul style="list-style-type: none"> -Blood -Lymph (Tissue Fluid) -Circulatory Pathways -Double Circulation -Regulation Of Cardiac Activity -Disorders of Circulatory System -Human Excretory System -Urine Formation -Function of the Tubules -Mechanism of Concentration of the Filtrate -Micturition -Role of other organ in Excretion -Disorders of the Excretory System 	Practical in Biology Lab & Video
9	Feb	<p>Ch 20 Locomotion & Movement</p> <p>Ch 21 Neural Control & coordination</p> <p>Ch 22 Chemical Coordination & Integration</p>	<ul style="list-style-type: none"> -Types of Movement -Muscle -Skeletal System -Joints -Disorders of Muscular & Skeletal System -Neural system -Human Neural System -Neuron as structural & functional Unit of Neural System -Central Neural system -Reflex Action & Reflex Arc -Sensory Reception & Processing -Endocrine Glands & Hormones -Human Endocrine System -Hormones of Heart, Kidney & Gastrointestinal Tract -Mechanism of Hormone Action 	Practical in Biology Lab & Video
10	Mar	Revision	-	-

STD : 11TH

SUB: PHYSICS

Month	Chapters & Topics
June	Part – 1 Ch.1: Physical world Topics: 1.1 to 1.5 Ch.2: Units And Measurements Topics: 2.1 to 2.10 Ch.3: Motion in a Straight line Topics : 3.1 to 3.4
July	Ch.3: Motion in Straight line Topics: 3.4 to 3.7 Ch.4: Motion in Plane Topics: 4.1 & 4.4
August	Ch.4: Motion in Plane Topics: 4.5 & 4.11 Ch.5: Law of Motion Topics: 5.1 to 5.11 Ch.6: Work, Energy And Power Topics: 6.1 to 6.12
September	Ch.7: System of Particles and Rotational Motion Topics: 7.1 to 7.14 Ch.8: Gravitation Topics: 8.1 to 8.12
October	SA-1 Exam
November	Ch.9: Mechanical Properties of Solids Topics: 9.1 to 9.7 Ch.10: Mechanical properties of Fluids Topics: 10.1 to 10.7 Ch.11: Thermal Properties of Matter Topics: 11.1 to 11.10
December	Ch.12: Thermodynamic Topics: 12.1 to 12.13 Ch.13: Kinetic Theory Topics: 13.1 to 13.7
January	Ch.14: Oscillations Topics: 14.1 to 14.10 Ch.15: Waves Topics: 15.1 to 15.8

COMPUTER-11

SR.NO	MONTH	TOPIC	CONCEPT	ACTIVITY
1	Jun	Ch-1 Introduction to Multimedia Ch-2 Animation Tool: Synfig	Multimedia, Elements, Usage, Stages in multimedia Production Toolbox, Canvas, Panels, Creating new file, Tools, BLine Tool, Zoom Tool, Smooth Move tool	Prepare an animation in Synfig
2	Jul	Ch-3 Creating Animation Using Synfig Ch-4 Introduction to Layers	Time bar, editing mode, key frame, Time loop Layers, Rotation on specified path	Use the frames and layers in your animation.
3	Aug	Ch-5 Using Pictures in Synfig Ch-6 Basic Ubuntu Linux commands	Inserting Image, Masking, Creating slideshow using Synfig, Interactivity Starting Up the terminal, Listing the shells, Command Syntax, General Commands, echo, passwd, clear, working with directories, Working with files, I/O redirection,	Work with basic commands of Ubuntu Linux
4	Sep	Ch-7 Vim Editor and Basic Scripting Ch-8 Advanced scripting	Vim Modes, Creating file in Vim, Editing the document, Searching and replacing text, Executing Linux command through Vim, Shell script Finding process ID, Decision making task, The test command, Handling repetition, Functions	Work with Vim editor and prepare scripts. Perform advanced commands in Vim editor
5	Oct	Ch-9 Introduction to Database Management System	Database Management System, Creating a sample Database for an Application, Data types, Numeric Types, Using Design View, Primary key, Save table	Create a data base table.
6	Nov	Ch-10 Working with Tables	Insert data in the table, Editing, Delete records, sorting data, controlling data redundancy, Referential Integrity, Field properties	
7	Dec	Ch-11 Retrieving Data Using Queries	Defining query, Using Wizard, Using Design View, Editing query, Using multiple fields, Performing calculations, Grouping the data, Parameter query, SQL	Perform queries on your data base table.
8	Jan	Ch- 12 Forms and Reports	Creating form using wizard, modifying form, moving control, change the date field, change background, search a record using form, Reports	Create form and report for your table.
9	Feb	Ch-13 Current trends and Technologies	Mobile computing, Wi-Fi, GPRS, 3G and 4G, Bluetooth, Smart phones and Tablets, Cloud computing, RFID, Biometrics, GPS, computer control devices, Digital photography, Green computing	Discuss about latest trends in current technologies.

Paper Style – 11

For all the round's - MCQS