General Guidelines For Conducting Online Classes And Continuous Learning Plan For Students

As the whole nation is in the grip of COVID-19 and the school could not function physically for the current session as of now, the school started conducting online classes as per the guidelines of the Government and the Education Department.

The school has curtailed the syllabus for classes I to VIII to 75%. The syllabus has been reduced after careful deliberation and every effort has been made not to compromise on the learning capabilities of the students during the times when face to face interaction with the students is not feasible. The school formulated a learning plan so that the final outcome of the learning is met. The syllabus for classes IX to XII has been reduced by CBSE and the teaching is being conducted on the given guidelines.

The following guidelines are being observed by the teachers for conducting the online classes and to meet the desired learning outcomes:

- The teachers are required to prepare learning plans for their grades/subjects/learners.
- The weekly lesson plan must include the topic to be covered, the learning outcomes of the concerned topics and a note of sources / resources used for teaching. (textbooks, chapters, e-resources, web links, etc)
- The WhatsApp groups for different classes and for different subjects have been formed.
- The students are asked to go through a particular portion of the chapter one day prior and the teacher teaches the given topic next day so that the concepts become clear to the students in a better way.
- Teachers ask the students to highlight the important points during the discussion/ teaching.
- Students are also provided with the related links and are asked to refer to that.
- Regular assignments are being given to the students on the completion of the topic / chapter. The assignments should include Multiple Choice Questions /short Answer Type Questions / Long Answer Questions / Activity Based Questions / Open Book Questions.
- The teachers are required to constantly contact the parents in case the child does not respond well in studies or is irregular in attending classes.
- In case Internet is not available at a student's home, then those students are telephonically suggested to be in touch with other students and the teacher to keep updated regarding the topics covered and are encouraged to do self study.
- The teachers to make sure that the work / activity has been conducted and submitted within the timeline.
- At the upper primary stage, the teachers encourage learners for self study, readings, and learning by doing with available resources at home under the supervision of parents.
- An emphasis must be given to involve the students in creative activities specially in primary classes so that students' involvement gets the priority and learning takes place in an interactive manner.

CLASS XI SCIENCE SYLLABUS
SESSION : 2020 - 21

ENGLISH

MONTH	CHAPTER/TOPIC
APRIL	Letters/The Last Lesson)Notice
MAY	Report/My Mother at Sixty Six
JULY	Lost Spring/Third level
AUGUST	Deep Water/Comprehension/The Enemy
SEPTEMBER	Replies to invitation/advertisement/
OCTOBER	The Rattrap/Aunt Jennifer's
NOVEMBER	Should Wizard Hit Mommy
DECEMBER	Writing skills revision
JANUARY	Revision literature
FEBRUARY	Revision for final Exams
MARCH	Exams

Learning outcomes- To acquire good vocabulary, learning and communication skills.

PHYSICS

MONTH	CHAPTER/TOPIC
APRIL	Chapter 1 : Physical World
MAY	Chapter 2 : Units and Measurements
JULY	Chapter 3 : Motion in a Straight line
AUGUST	Chapter 3 : Motion in a Straight line
	Chapter 4 : Motion in a Plane
SEPTEMBER	Chapter 5 : Laws of Motion
	Chapter 6 : Work , Energy and Power
OCTOBER	Chapter 7 : System of particles and Rotational Motion
	Chapter 8 : Gravitation
	Chapter 9 : Mechanical Properties of Matter
NOVEMBER	Chapter 10 : Mechanical Properties of Fluids
	Chapter 11 : Thermal properties of Matter
	Chapter 12 : thermodynamics
	Chapter 13 : Kinetic Theory of Gases
DECEMBER	Chapter 14 : Oscillation
	Chapter 15 : Waves
JANUARY	Revision
FEBRUARY	Revision
MARCH	Exams

Learning outcomes -Strengthen the concepts developed at the secondary level, Expose the learners to different processes used in Physics-related industrial and technological applications, Promote problem

solving abilities and creative thinking in learners. Develop conceptual competence in the learners and make them realize and appreciate the interface of Physics with other discipline.

CHEMISTRY

MONTH	CHAPTER/TOPIC
APRIL	Chap.1 : Some basic concepts of chemistry
MAY	Chap.1 : Some basic concepts of chemistry
JULY	Chap. 2 : Structure of atom(Upto quantum theory)
AUGUST	Chap. 2 : Structure of atom
	Chap. 3 : Classification of elements
SEPTEMBER	Chap .4 : Chemical bonding
	Chap. 5 : Chemical bonding
OCTOBER	Chap. 6 : Chemical Thermodynamics
	Chap. 7 : Chemical Equilibrium
NOVEMBER	Chap. 8 : Redox Reaction
	Chap. 9 : Hydrogen
	Chap. 10 : s- block elements
	Chap. 11 : p- block elements
DECEMBER	Chap. 12 : Organic Chemistry
	Chap. 13 : Hydrocarbons
JANUARY	Revision
FEBRUARY	Revision
MARCH	Exams

Learning outcomes- Knowledge, Application, Comprehension and Analysis.

MATHEMATICS

MONTH	CHAPTER/TOPIC
APRIL	Chapter15: Statistics
MAY	Chapter 1: Sets
JULY	Chapter 2: Relation and functions
	Chapter 3 : Trigonometry functions
AUGUST	Chapter 5 : Complex numbers and Quadratic Equations
	Chapter 6 : Linear inequalities
	Chapter 7 : Permutations and combination
SEPTEMBER	Chapter 9 : Sequence and series
OCTOBER	Chapter10: Straight lines
	Chapter11 : Conic section
NOVEMBER	Chapter 12 :Introduction to 3D
DECEMBER	Chapter13 : Limits and derivatives
JANUARY	Revision
FEBRUARY	Revision
MARCH	

Learning outcomes - Knowledge, Application, Comprehension and Analyze data and the ability to apply analytical and theoretical skills to solve mathematical problems.

BIOLOGY

MONTH	CHAPTER/TOPIC

APRIL	Chap.1: The living World (what is living, biodiversity, need for Classification, domains of life ,concept of species,Taxonomical hierarchy, bionomial nomenclature)
	Chap.2: Biological classification
	Chap.3: Plant kingdom (except angiosperm)
MAY	Chap.4: Animal Kingdom
	Chap.5: Morphology of inflorescence and flower, description of family
	Solanaceae or liliaceae
	Chap.7: Animal tissue
JULY	Chap.8: Cell- The unit of life
	Chap.9: Biomolecules
AUGUST	Chap.10: Cell cycle and cell division
	Chap.13: Photosynthesis in higher plants
SEPTEMBER	Chap.14: Respiration in plants
	Chap.15: Plant growth and development (Growth regulators)
OCTOBER	Chap.17: Breathing and exchange of gases
	Chap.18: Body fluids and circulation
NOVEMBER	Chap.19: Excretory products and their elimination
	Chap.20: Locomotion and movement (skeletal muscles, contractile protein, Muscle contraction)
DECEMBER	Chap.21: Neural control and coordination (excluding eye and ear)
	Chap.22: Chemical coordination and integration
JANUARY	Revision
FEBRUARY	Revision
MARCH	Exams

Learning outcomes- Students will be able to understand the physiology of plants and animals and will be able to apply the knowledge in day to day life. They will be able to know diff. parts of flower.

COMPUTER SCIENCE

APRIL	Revision of the basics of Python covered in Class XI. Functions: scope, parameter passing, mutable/immutable properties of data objects, passing strings, lists, tuples, dictionaries to functions, default parameters, positional parameters, return values, functions using libraries: mathematical and string functions.
MAY	Text File: Basic operations on a text file: Open (filename – absolute or relative path, mode), Close a text file, Reading and Manipulation of data from a text file, Appending data into a text file, standard input / output and error streams, relative and absolute paths. ● Binary File: Basic operations on a binary file: Open (filename – absolute or relative path, mode), Close a binary file, Pickle Module – methods load and dump; Read, Write/Create, Search, Append and Update operations in a binary file.

	● CSV File: Import csv module, functions – Open, Close a csv file, Read from a csv file and Write into a csv file using csv.reader ( ) and csv.writerow( ). ● Using Python libraries: Import Python libraries.
JULY	Data-structures: Lists as covered in Class XI, Stacks – Push, Pop using a list.
AUGUST	Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across the network with reference to switching techniques (Circuit and Packet switching). ● Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data transfer rate (bps, Kbps, Mbps, Gbps, Tbps). ● Transmission media: Twisted pair cable, coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link. ● Network devices: Modem, RJ45 connector, Ethernet Card, Router, Switch, Gateway, WiFi card. ● Network Topologies and types: Bus, Star, Tree, PAN, LAN, WAN, MAN. ● Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, HTTP, SMTP, POP3, Remote Login (Telnet) and Internet, Wireless / Mobile Communication protocol such as GSM, GPRS and WLL. ● Mobile Telecommunication Technologies: 1G, 2G, 3G, 4G and 5G; Mobile processors; Electronic mail protocols such as SMTP, POP3, Protocols for Chat and Video Conferencing: VoIP, Wireless technologies such as Wi-Fi and WiMax Network Security Concepts: Threats and prevention from Viruses, Worms, Trojan horse, Spams Use of Cookies, Protection using Firewall, https; India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking.

SEPTEMBER	Database Management Database Concepts: Introduction to database concepts and its need. Relational data model: Concept of domain, relation, tuple, attribute, degree, cardinality, key, primary key, candidate key, alternate key and foreign key; Structured Query Language: General Concepts: Advantages of using SQL, Data Definition Language and Data Manipulation Language; Data Types: number / decimal, character / varchar / varchar2, date; SQL commands covered in class XI (2019-20) SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, LIKE, NULL / IS NULL, ORDER BY,GROUP BY, HAVING; SQL functions: SUM ( ), AVG ( ), COUNT ( ), MAX ( ) and MIN ( ) Joins: equi-join and natural join
OCTOBER	Interface of Python with an SQL database - Connecting SQL with Python - Creating Database connectivity Applications - Performing Insert, Update, Delete queries - Display data by using fetchone(),fetchall(),rowcount

NOVEMBER	Report file: Python programs. A N D SQL commands
DECEMBER	REVISION
JANUARY	REVISION & PRACTICAL EXAMS
FEBRUARY	REVISION

Learning outcomes – Improved logical and analytical skill.

PHYSICAL EDUCATION

MONTH	**CHAPTER/TOPIC**
APRIL	Unit 1: Changing trends and career in physical education
	Unit 2 : olympic value Education
MAY	Unit 3 : physical fitness, wellness and lifestyle
	Unit 4 : Physical education and sports in CWSN
JULY	Unit 5: Yoga
	Unit 6 : Physical activity and leadership training
AUGUST	Unit 7 : Test, Measurement and Evaluation
SEPTEMBER	Unit 8 :Fundamental of Anatomy, physiology
OCTOBER	Unit 9 : Psychology and Sports
NOVEMBER	Unit 10 :Training and doping in sports
DECEMBER	Practical File Work
JANUARY	Revision
FEBRUARY	Revision
MARCH	

Learning outcomes- Physical activity is central to health, A healthy body breeds a healthy mind.