



INDIAN SCHOOL AL WADI AL KABIR - SYLLABUS BREAK UP FOR OCTOBER 2019-20
CLASS XI - SCIENCE

SUBJECT	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
ENGLISH	<p>The Browning Version</p> <p>NOTE MAKING</p>	<p>Albert Einstein at School</p> <p>Grammar-Error Correction</p> <p>PRACTICE WORKSHEET</p>	<p>Grammar-Clauses</p> <p>Formal Letter- Official: School/ College Authorities</p>	<p>NOTE MAKING</p> <p>Advertisements</p> <p>NOTICE WRITING</p> <p>ASL</p>	<p>Mother's Day</p> <p>Comprehension Passage</p> <p>ASL</p>
PHYSICS	<p>Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no Derivation</p> <p>Statement of parallel and perpendicular axes theorems and their applications.</p> <p>Statement of parallel and perpendicular axes theorems and their applications.</p>	<p>GRAVITATION-</p> <p>Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential,</p>	<p>Escape velocity, orbital velocity of a satellite.</p> <p>Geo-stationary satellites.</p> <p>PROPERTIES OF BULK MATTER</p> <p>Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus</p> <p>of rigidity, Poisson's ratio; elastic energy.</p>	<p>Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity,,</p>	<p>Properties of Bulk Matter</p> <p>Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface,</p> <p>Application of surface tension ideas to drops, bubbles and capillary rise.</p>

PHYSICS (PRACTICALS)	Cycle II Screw Gauge II Vernier Callipers II Parallelogram law				
CHEMISTRY	Internal energy and enthalpy, Heat capacity and specific heat. (CONTD./)	Extensive and intensive properties, Hess's law, Enthalpy of bond dissociation, Combustion, Formation, Atomization, Sublimation Second law of Thermodynamics, Gibb's energy change for spontaneous and non-spontaneous processes, Criteria for equilibrium.	Supplementary material - Third law of Thermodynamics EQUILIBRIUM <ul style="list-style-type: none"> • Dynamic equilibrium, Law of mass action, Equilibrium constant, Factors affecting equilibrium Ionic Equilibrium in solution, Acids, Bases	Lowry Bronsted concept of Acids and bases. Lewis Acids and bases Ionisation of acids and bases Ionization of polybasic acids, Acid strength Concept of pH, Hydrolysis of salts, Buffer solution, Henderson equation	REDOX REACTIONS Concept of oxidation and reduction, Redox reactions. balancing redox reactions in terms of loss and gain of electrons. Redox reactions as the basis for titrations Applications of redox reactions Daniell cell

			and salts, Arrhenius concept,	Solubility equilibria Common ion effect on solubility of salts	Standard electrode potential
CHEMISTRY (PRACTICALS)	Analysis of Salt VIII VOLUMETRIC ANALYSIS –I				
MATHEMATICS	Binomial Theorem	Sequences and Series	Sequences and Series	Straight lines	Straight lines
MATHEMATICS (PRACTICALS)	<p>Complex Numbers and Quadratic Equations - Activity 11</p> <p>To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers.</p> <p>Binomial Theorem - Activity 15</p> <p>To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent</p> <p>Sequence And Series Activity - 17</p> <p>An alternative approach to obtain formula for the sum of squares of first n natural numbers.</p>				

BIOLOGY	Respiration - glycolysis	Respiration Plant growth and regulators – Plant growth regulators	Plant growth and regulators	Cell the unit of life Living world	Biological classification
BIOLOGY (PRACTICALS)	Mitosis – P.S Animal specimens				
INFORMATICS	Introduction to python dictionary. Methods to create , accessing an element, traversing, appending values, updating elements, removing an item, 'in' and 'not in' membership operator.	Introduction to python modules. Importing a python modules, namespace, and aliasing. Standard built-in modules and functions	Introduction to Numpy, Installing numpy. NumPy arrays vs Python lists, NumPy data types	Methods to create NumPy arrays. Operations on NumPy Array	Introduction to Relational Databases and Structured query Language (SQL). What is DBMS, need, components and advantages?
INFORMATICS (PRACTICALS)	1) Program on String traversing. 2) Program using different String operations – Compare, concat and substring	1) Program to create an access a list. 2) Program to join two lists.	1) Program to find the max, min and mean value in the given list. 2) Program to count the frequency of a Number in a list.	1) Program to perform linear search on the given list. 2) Program to find the 3 rd largest in the given list.	1) Import NumPy and print the version no. 2) To create an array of 1-D containing Numeric values.

COMPUTER SCIENCE	Sorting algorithm: bubble and insertion sort	Sorting: count the number of operations while sorting.	Strings: Traversing, compare, concat, substring	Strings: Traversing, compare, concat, substring	
COMPUTER SCIENCE (PRACTICAL)	1) Finding out Maximum and Minimum number in the given list. 2) Finding Mean and Median value in the given any list.	1. Program to perform Linear Search in the given list. 2. Program that returns the largest even number in the list of integers.	1. Program to print every 3 rd element of a Tuple, raised to power 3. 2. Similar Questions on Tuple and Lists.	1. Program the middle most number in the data set on the given list. 2. Program to count the frequency of all the numbers in the given list.	1. Program to perform Bubble sort on a list of String values. 2. Program to perform Bubble sort on a list of Numbers.
PSYCHOLOGY	UNIT V SENSORY, ATTENTIONAL AND PERCEPTUAL PROCESSES <ul style="list-style-type: none"> Knowing the world 	<ul style="list-style-type: none"> Nature and varieties of stimulus Sense modalities 	<ul style="list-style-type: none"> Attentional processes Perceptual process 	<ul style="list-style-type: none"> The perceiver Principles of perceptual organization Perception of space, depth and distance 	<ul style="list-style-type: none"> Perceptual constancies Illusions Socio- cultural influences on perception.

<p>PSYCHOLOGY (PRACTICAL)</p>	<p>SUBSTITUTION LEARNING</p>				
<p>WORK EXPERIENCE</p>	<p>Prepare an excel sheet on any automobile company and perform following operations: inserting, deleting, and renaming a sheet, changing column width and row height.</p>	<p>Prepare an excel sheet on any departmental store and perform following functions: Merging Cells, Cell range ,Fonts, Alignment, Wrap Text</p>	<p>Prepare an excel sheet containing employee payroll report including following functions: text Orientation, Border and Shading</p>	<p>Prepare a report on the sales performance of the employees and calculate the commission and center align the sheet horizontally and vertically.</p>	<p>Prepare an excel sheet and use built in functions to find sum, average, max, min and count.</p>
<p>GENERAL STUDIES</p>	<p>Group Discussion Based on the topics Uses and misuses of technology in the fields of health care,agriculture,education etc)</p>				
<p>PE</p>	<p>1.Preparing students for Annual Sports day -Teaching the formation & rehearsal of drill. -Conducting Heats & trials. -Athletic meet. 2.Subject to availability of time what was done in first Session will also be continued. 3.Evening Games.</p>				

	4.C.B.S.E Cluster / National
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	-Selection of Students
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	-Participation
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	5.Winter Coaching.
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HOD'S/ COORDINATORS

VICE PRINCIPAL

PRINCIPAL