



GATEWAY
INTERNATIONAL SCHOOL

GRADE XI SCIENCE

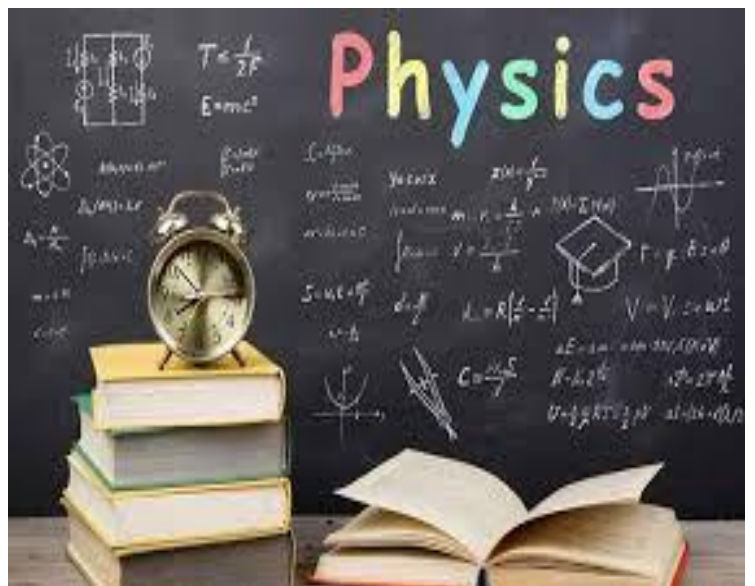
ANNUAL LEARNING PROGRESSION





Subject: Physics

S.No.	Month	Unit/Topics/Chapter	Activities	Syllabus Internal Assessment / Half Yearly/Annual	
1.	April	Chapter-2: Units and Measurements Chapter-3: Motion in aStraight Line	P1 -To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.	<u>IA-I Syllabus</u> Chapter-2,3,4	
2.	May	Chapter-4: Motion in a Plane	A1 -To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm. P2 -To measure diameter of a given wire and thickness of a given sheet using screw gauge. A2 -To study the variation in range of a projectile with angle of projection.		
3.	July	Chapter-5: Laws of Motion Chapter-6: Work, Energy andPower	P3 -To determine volume of anirregular lamina using screw gauge.		<u>IA-II-5,6</u>
4.	August	Chapter-7: System of Particles and RotationalMotion Chapter-8: Gravitation	A3 -To measure the force of limiting friction for rolling of a roller on ahorizontal plane. P4 -To determine radius of curvature of a given spherical surface by a spherometer.		
5.	Sep	Chapter-9: Mechanical Properties of Solids Chapter-10: Mechanical	P5 -To determine Young's modulus of elasticity of the material of a given wire.	<u>Half Yearly</u> <u>Syllabus</u>	

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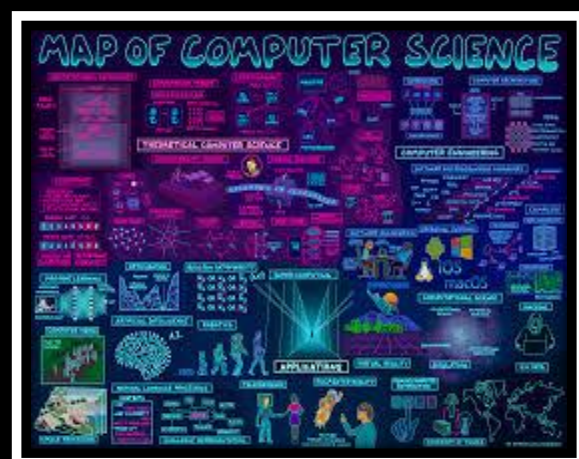
Session: 2023-24

Class : XI

Subject : Computer Science (083)

S. No.	Month	Unit/Chapter/Topic	Practical/Activity	Syllabus Internal Assessment / Half Yearly/ Annual
1	April	UNIT 1: Chapter1-computer system overview Chapter2- data representation	Numerical practice	
2	May	Chapter 3-boolean logic Chapter 4- insight into program execution (only operating system & its functions, language translators) UNIT 2: Chapter 5- Introduction to problem solving Chapter6- getting started with python	Program based on data handling concepts	Internal Assessment 1 Ch-1,2,3
3	June	Summer break (Prepare practical file on some topics (programs) as given in list)		
4	July	UNIT 2 continue... Chapter 7- python fundamentals Chapter8-data handling Chapter 9- flow of control	Programs based on loops and conditional statements	
5	August	Chapter 10- string manipulation	Practice of all programs on conditional statements , loops and jump statements	Internal Assessment 2 Ch-4,5,6,7,8
6	September	Revision & exam		Half Yearly (written) Ch-1,2,3,4,5,6,7,8,9 Half Yearly (practical) Ch-7,8,9
7	October	UNIT 2 continue... Chapter 11- list manipulation Chapter 12- tuples Chapter 13- dictionaries	Programs practice for practical file & various topics text, list, tuples, dictionaries	
8	November	Chapter 14 Introduction to Python modules: Importing module using 'import <module>'	Practice on random function and	

		and using from statement, Importing math module (pi, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode)	variations	
9	December	UNIT 3: Chapter 15- cyber safety Chapter16- online access and computer safety	Practice on all concepts of python Activity: Presentation on cyber safety issues	Internal Assessment 3 Ch- 10,11,12,13
10	January	Chapter 17-society , law and ethics		
11	February	Practical & Final Exam		
12	March			
				Annual Exam (written) Ch- All chapters Annual Exam (practical) Ch- 7 to 13





GATEWAY INTERNATIONAL SCHOOL

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Session:2023-24

Class: XI

Subject : Chemistry

S. No	Month	Unit/ Chapter/ Topic	Practical/Activity	Syllabus Internal Assessment /Half Yearly/ Annual
1	May	Chapter-1 Some basic concepts in chemistry	1. Preparation of some standard solution	<u>IA-I Syllabus</u> Chapter-1
2	July	Chapter-2 Atomic structure(half) Chapter-2 Atomic structure(half) Chapter-3 Periodic classification and properties	1. Basic lab techniques. 2. Detection of melting point and boiling point of compounds. 3. Titration of HCl vs. Na_2CO_3 .	
3	August	Chapter-4 Chemical bonding. Chapter-5 Thermodynamics(half)	1. By making 3 d model with the help of magnetic balls.	<u>IA-II Syllabus</u> Chapter-2
4	September	Chapter-5 Thermodynamics(half)	1. Enthalpy of neutralization of strong acid and strong base.	
5	October	Chapter-6 Equilibrium Chapter-7 Redox	1. Determination of pH of some liquid obtained from fruits. 2. Study the change in pH in titration by using universal indicator.	<u>Half Yearly Syllabus</u> Chapter- 1,2,3,4
6	November	Chapter-8 Organic chemistry: some basic Principles and Techniques.	1. Detection of N, S and Clin organic compounds.	
7	December	Chapter-9 Hydrocarbon	1. Salt analysis	<u>IA-III Syllabus</u> Chapter-5,6
8	January	Revision		
9	February	Revision		<u>Annual Examination- Full Syllabus</u>



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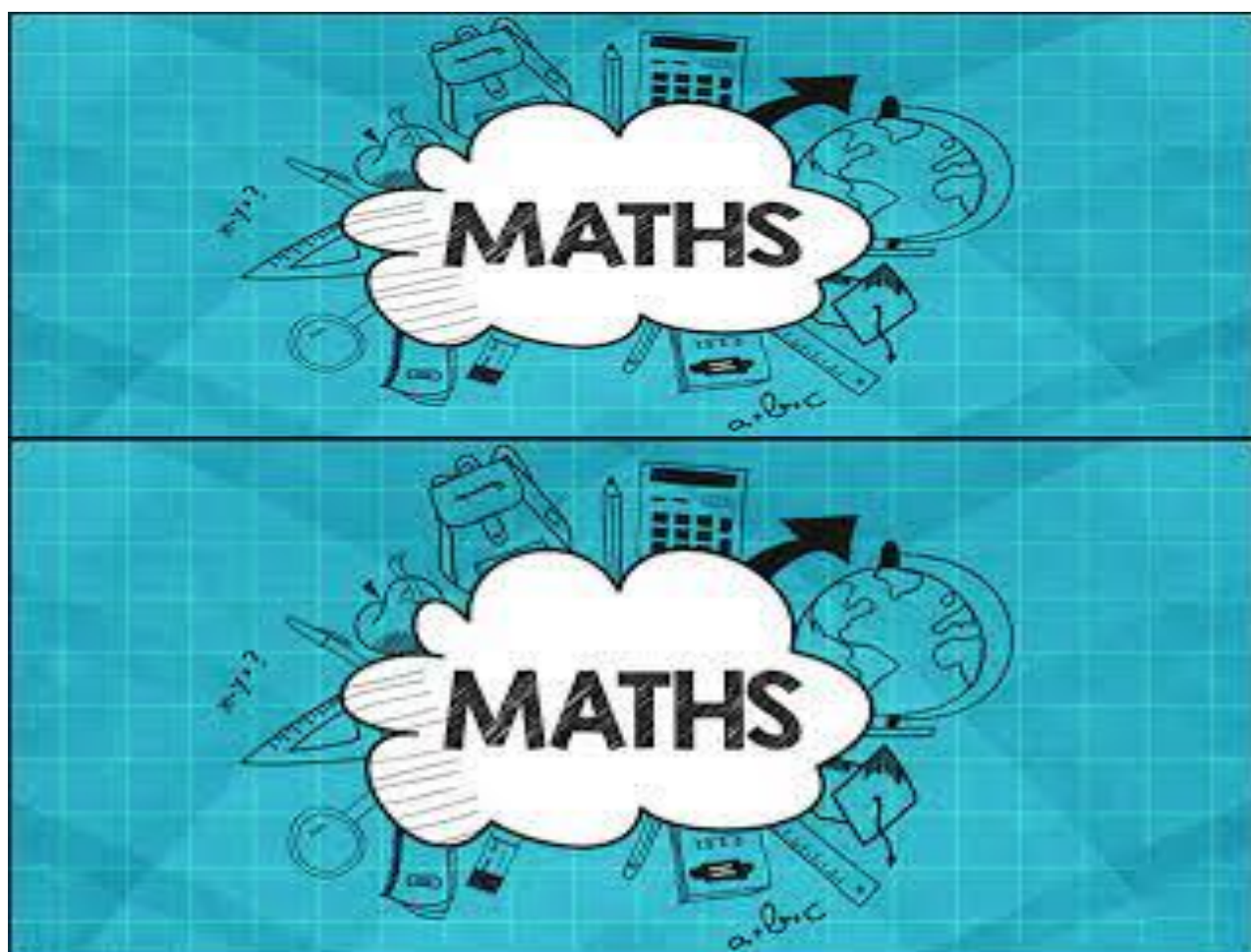
Class- XI

Subject : Core Maths

Month	Unit/Chapter/Topic	Activity	Syllabus Internal Assessment/Half Yearly/Annual
April	Ch-1: Sets Ch-2: Relations & Functions	Activity-1: To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n . Activity-2: To distinguish between a Relation and a Function.	M.C.Q. Test and work sheet Ch- 1,2
May	Ch-5: Complex Numbers and Quadratic Equations Ch-3: Trigonometric Functions	Activity-3: To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of $\pi/2$ and π . Activity-4: To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers. Activity-5: To verify that the graph of a given inequality, say $5x + 4y - 40 < 0$, of the form $ax + by + c < 0$, $a, b > 0$, $c < 0$ represents only one of the two half planes.	Revision Test Syllabus: Ch-5,3 <u>IA1-CH-1,2 &5</u>
July	Ch-6: Linear Inequalities Ch-7: Permutations and Combinations		
August	Ch-8: Binomial Theorem Ch-9: Sequence and Series	Activity-6: To construct a Pascal's Triangle and to write binomial expansion for a given positive integral exponent.	<u>IA2-CH-3 &6</u>
September	Ch-12: Introduction to Three-dimensional Geometry		<u>Half Yearly-1,2,3,5,6,7&8</u>

Revision

October	Ch-10: Straight Lines	Activity-7: To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.	Revision Test
	Ch-11: Conic Sections		
November	Ch-16: Probability	Activity-8: To find the number of ways in which three cards can be selected from given five cards	
	Ch-13: Limits and Derivatives		
	Ch-15: Statistics		
December	Revisions		
January			<u>Annual Exam-Full Syllabus</u>





GATEWAY INTERNATIONAL SCHOOL

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Session: (2023-2024)

Class- XI

Subject-Psychology

MONTH	CHAPTER	ASSESSMENT
JULY	CH1:WHAT IS PSYCHOLOGY? CH2 : METHODS OF ENQUIRY IN PSYCHOLOGY	
AUGUST	CH2:METHODS OF ENQUIRY IN PSYCHOLOGY	IA 1 : CH 1
SEPTEMBER	CH 4 :HUMAN DEVELOPMENT CH 5 : SENSORY,ATTENTIONAL AND PERCEPTUAL PROCESSES	REVISION TEST : CH 1, CH 2
OCTOBER	CH 5 : SENSORY,ATTENTIONAL AND PERCEPTUAL PROCESSES	IA2:CH3, CH4,CH5
NOVEMBER	CH6:LEARNING CH 7 : HUMAN MEMORY	HALFYEARLY: CH1,CH2,CH4,CH5,
DECEMBER	CH7:HUMAN MEMORY CH 8 : THINKING	
JANUARY	CH 8 : THINKING CH 9 : MOTIVATION AND EMOTION	REVISION TEST:CH6,CH 7
FEBRUARY	REVISION	REVISION TEST : CH 8, CH 9
MARCH	REVISION	ANNUAL EXAM



GATEWAY INTERNATIONAL SCHOOL
ANNUAL PLANNER
Session:2023-24

Class: XI

Subject: Biology

S.No.	Month	Unit/Chapter/Topic	Activities	Syllabus Internal Assessment / Half Yearly/Annual
1.	May	Chapter-17: Breathing and Exchange of Gases Chapter-18: Body Fluids and Circulation	Calculating Rf Value through Paper Chromatography	IA-I: Chapter-17,18
2.	July	Chapter-19: Excretory Products and Their Elimination Chapter-20: Locomotion and Movement	Potato osmometer	
3.	August	Chapter-21: Neural Control and Coordination Chapter-22: Chemical Coordination and Integration Chapter-8: Cell-The Unit of Life Chapter-9: Biomolecules	Section Cutting, Performing Qualitative analysis of Proteins and Sugars	IA-II: Chapter-17,18,19,20
4.	Sept	Chapter-10: Cell Cycle and Cell Division Chapter-1: The Living World Chapter-2: Biological Classification	Studying Stomatal Index	Half Yearly: Chapter-17,18,19,20,21,22,8,9
5.	October	Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Chapter-5: Morphology of Flowering Plant Chapter-6: Anatomy of Flowering Plants	Spotting, Studying Rate of respiration through germinating Seeds	
6.	Nov	Chapter-7: Structural Organization in Animals Chapter-13: Photosynthesis in Higher Plants	Section Cutting & spotting, Investigatory Project	IA-III: Chapter-10,1,2,3,4
7.	December	Chapter-14: Respiration in Plants Chapter-15: Plant - Growth and Development		
8.	February	Revision (Annual Exams)		Annual Exams: Full Syllabus



GATEWAY INTERNATIONAL SCHOOL

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Session: (2023-2024)

Class- XI

Subject : Physical Education

S.No.	Month	Unit/Chapter/Topic	Activity	Internal Assessment/Half Yearly/Annual
1	April	Unit-1 Changing trends & career in Physical Education. Concept aim & objective of physical education Career options in physical education KheLo India and fit India a program.	Body fitness activities	Internal Assessment-1 Unit- 1 ,2.
2	May	Unit-2 Olympism Ancient and modern Olympic. Olympism concept and Olympics values.	Flag diagram	
3	June	Olympics-symbols ,motto,flag oath and anthem.olympic movement structure- IOC,NOF,IFS, other members. Summer break 26may to 02 July.	-----	
4	July	Unit-3 yoga.meaning & importance of yoga. Ashtanga yoga	Yoga activities	
Yogic kriyas (shatkarma).				

5	August	Unit-4 Physical education and sports for cwsn-divyang. Concept of disability and disorder Intellectual and Physical disability. Role of various professional counsellor, occupational therapist, physiotherapist, physical teacher, speech therapist & special educator.	Speech therapist	IA -2 Unit-3,4
6				
7		It is great to know...I am happy for your selection in institution of repute. All the very best for the new journey		
8	September	Unit-5 Physical fitness, health and wellness Revision.	Test	Half yearly exam. Unit-1 to 5th.
9	October	Unit-6 Test measurement & Evaluation. Classification of test in physical education and sports. Test administration guidelines in physical education and sports.	Ground measurement test	
10	November	Unit-7 Fundamentals of anatomy, physiology in sports. Definition of anatomy and physiology in exercise and sports. Skeletal system, classification of bone and joints. Function and	Lesson no 7 and 8 test.	

		<p>structure of circulatory system and heart function of respiratory system. Unit-8 fundamental of kinesiology and biomechanics in sports. Definition of kinesiology and biomechanics. Principles of biomechanics. types of body movement flexion, extension, abduction, adduction, rotation, circumduction, supination and pronation.</p>		
11	Nov	<p>Unit-9 Psychology & sports. Definition of Psychology. adolescent problems & their management Team cohesion and sports. Unit-10 Training and doping in sports. Concept and principles of sport training. Training load adaptation and recovery. concept of doping and its disadvantages.</p>	Test and revision	
12	December	All lesson	Revision and test	



GATEWAY INTERNATIONAL SCHOOL

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Class : XI

Subject: English

Month	Unit/Chapter/Topic	Activity	Syllabus Internal Assessment/Half Yearly/Annual
April	Hornbill Ch-1 The Portrait of a Lady P-1 A Photograph, Snapshots Ch-1 The Summer of the Beautiful White Horse Writing & Grammar: Determiners , Poster		
May	Snapshots: Ch-2 The Address Hornbill: Ch-2 We're Not Afraid to Die.. Ch-3 Discovering Tut Writing: Classified Advertisement		IA-I Syllabus Hornbill: Ch-1,,,Poem-1 Snapshots: Ch-1, Writing Poster Making Grammar- Editing, Omissions, Sentence Reordering
July	Hornbill :P-2 The Laburnum Top Snapshots :Ch-3 Ranga's Marriage Writing: Speech Grammar: Tenses		
August	Hornbill Ch-4 Landscape of the Soul P-3 The Voice of the Rain Snapshots Ch4- Albert Einstein at School Ch-5 Mother's Day Writing: Debate		



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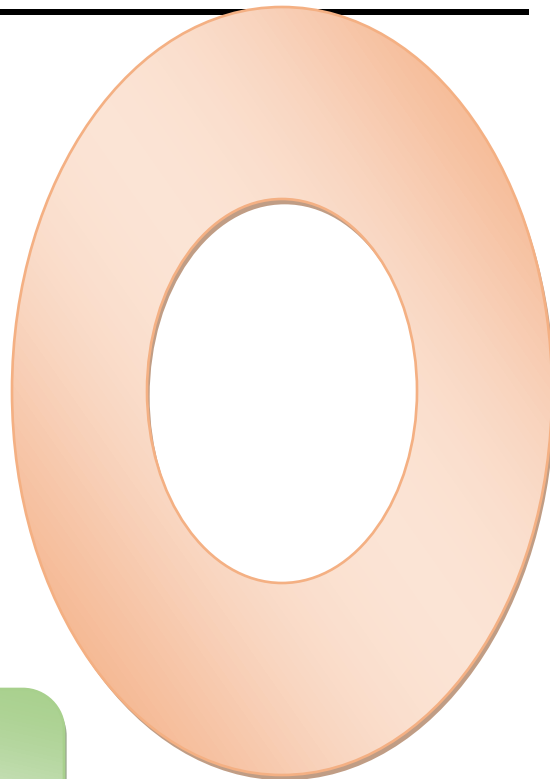
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Session: 2023-24

Class : XI

Subject: English

September	Hornbill: Ch-5 The Ailing Planet Grammar: Narration	<u>Half Yearly Syllabus</u> All Syllabus done till Sept
October	Snapshots: Ch-6 The Ghat of the Only World Hornbill: Ch-6 The Browning Version Writing: Poster Making	
November	Hornbill: P-4Childhood, Ch-7 The Adventure Snapshots: Ch-7 Birth Writing: Debate Writing, Speech Writing	<u>IA-II Syllabus</u> Hornbill: Ch4,P-3 Snapshots: Ch-4,5 <u>Writing & Grammar:</u> Determiners, Narration
December	Hornbill : Ch-8 Silk Road, P-5 Father to Son, Snapshots: Ch-8 The Tale of Melon City <u>Writing & Grammar:</u> Clauses	<u>Annual Examination Syllabus</u> Full Syllabus





GATEWAY EDUCATION

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