

Air Force School Hasimara
Split up Syllabus
2023-24

Class :XI Sc

Subject :English

Name of Books :Hornbill, Snapshots

Month	Dates	Periods Required	Topic /Sub-Topic	Assignments
July	1	1		
	3-8	5	HB:Ch-We're Not Afraid To Die,	Comprehension ,vocabulary, grammar, dictionary skills, writing practice
	10-15	5	The Portrait of a Lady	
	17-22	5	Photograph	
	24-29	5	HB:The Laburnum Top, Landscape Of The Soul	
Aug	1-5	5	Snapshot: The Summer of the	Comprehension practice, Short questions and MCQ will be practiced from Extra Marks
	7-11	5	Beautiful White Horse	
	14-19	5	Grammar: Tenses, Determiners	
	21-26	5	Writing practice from sample	
	28-31	4	question paper	
Sep	1-2	2	Ss-The Address	Comprehension, vocabulary, grammar, dictionary skills, writing practice Comprehension practice, Short questions and MCQ will be practiced from Extra Marks
	4-8	4	Ss-Ranga's Marriage	
	11-16	5	HB: Landscape of the Soul, Voice of the Rain	
	18-23	7	Grammar: Reordering of Sentences, Writing: Official Letter, Poster	
	25-30	5	Writing practice from sample question paper 1 st Periodic Test will be conducted	
Oct	3-7	5	Snapshot: Albert Einstein At School	Comprehension, vocabulary, grammar, dictionary skills, writing practice Compression practice, Short questions and MCQ will be practiced from Extra Marks
	9-13	6	Autumn Break	
	16-20	6	HB:Ch-Discovering Tut, Ailing Planet	
	31	1	Writing: Advertisement Revision from Hornbill and Snapshots, Reading practice	
Nov	1-4	5	HB : Childhood, Silk Road	
	6-10	6	Snapshot: Mother's Day	
	13-18	7	Writing: Debate	
	20-25	7	Grammar: Transformation of Sentences	
	27-30	4	Mid Term Exam	
Dec	1-2	2	HB: The Browning Version,	Comprehension practice, Short questions and MCQ will be practiced from Extra Marks
	4-8	6	Snapshot: The Ghats of the only	
	11-16	7	World	
	18-23	7		
Winter Break : 25 Dec 23 – 13 Jan 24				

Jan	15-20	7	HB:Ch-Childhood , Adventure	Comprehension, vocabulary, grammar, dictionary skills, writing practice Compression practice, Short questions and MCQ will be practiced from Extra Marks
	22-27	7	SB:Birth HB:Ch-The Browning Version,	
	29-31	3	Childhood Writing: Letter to the Editor and Appointment 2 nd Periodic Test will be conducted	
Feb	5-9	5	HB:Ch-Silk Road,	Comprehension, vocabulary, grammar, dictionary skills, writing practice Comprehension practice, Short questions and MCQ will be practiced from Extra Marks
	12-17	7	SB:Ch-The Tale of the Melon City	
	19-24	7	Grammar: Tenses Writing:Posters and Debate	
	26-29	4	Writing practice from sample question paper	
March	1-3	1	Final Exam	Comprehension, vocabulary, grammar, dictionary skills, writing practice
	6-10	3	Revision from Hornbill and	
	13-17	3	Snapshots Writing practice from	
	20-24	3	sample question paper	
	27-31	3		

Name of the teacher : Antora Barua
PGT (Eng)

AIR FORCE SCHOOL HASIMARA

SPLIT UP SYLLABUS

2023-24

CLASS: XI Sc

SUB: BIOLOGY

Name of the Book: NCERT Biology Textbook for Class XI

MONTH	WEEK	PERIOD REQUIRED	CONTENT	ASSIGNMENT	
July	1	1	General Introduction	Familiarizing with new pattern	
	3-8	7	Ch 1. The Living World Ch 2. Biological Classification	Study of compound Microscope Study of specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern and pine.	
	10-15	9	Ch 3.Plant Kingdom Ch 4. Animal Kingdom		
	17-22	9	Ch 5. Morphology of Flowering Plants		
	24-29	9	Periodic Test 1 Ch 6. Anatomy of Flowering Plant		
	31	1	Ch 6. Anatomy of Flowering Plant		
Aug	1-5	7	Ch 7. Structural Organization in Animals	Study of virtual specimens/slides/models and identification with reasons Amoeba, Hydra, Liver fluke, Ascaris, leech, Earthworm, prawn, silkworm, honeybee, snail, star fish, shark, rohu, frog and lizard.	
	7-12	7	Ch 8. Cell: The Unit of Life		
	14-19	7	Ch 9. Biomolecules		
	21-26	7	Ch 10. Cell Cycle and Cell Division		
	28-31	6	Ch 11. Transport in Plants Ch 12. Mineral Nutrition		
Sep	1-2	3	Revision		
	4-9	4	Half Yearly Exam		
	11-16	7			
	18-23	7			
	25-30	7	Ch 13. Photosynthesis in Higher Plants		
Oct	2-7	7	Ch 14. Respiration in Plants	Different types of inflorescences (cymose and racemose).	
	9-14	7	Ch 15. Plant Growth and Development		
	16-19	6	Ch 16. Digestion and Absorption		
	AUTUMN BREAK : 20 Oct 23 – 29 Oct 23				
	30-31	4	Ch 16. Digestion and Absorption		
Nov	1-4	6	Ch 17. Breathing and Exchange of Gases	Mitosis in onion root tips cells and animals' cells (grasshopper)from permanent slides	
	6-11	7	Ch 18. Body Fluids and Circulation		
	13-18	6	Ch 18. Body Fluids and Circulation		
	20-25	7	Ch 19. Excretory Products and Their Elimination		
	27-30	4			
Dec	1-2	4	Ch 20. Locomotion and Movement		
	4-9	7			
	11-16	9	Ch 21. Neural Control and Coordination		
	18-23	9			
WINTER BREAK : 25 DEC 23 – 13 JAN 24					

MONTH	WEEK	PERIOD REQUIRED	CONTENT	ASSIGNMENT
Jan	15-20	9	Ch 22. Chemical Coordination and Co-Ordination	Study of human skeleton and different types of joints.(Virtual images /models only)
	22-27	7		
	29-31	5		
Feb	1-3	3	Revision	CBSE Sample questions solving
	5-10	5		
	12-17	6		
	19-24	6		
	26-29	4		
Mar	1-2	2	Annual Exam	
	4-9	5		
	11-16	6		
	18-23	6		
	25-30	6	Declaration of Result	

Name of the teacher : Mrs Neethu Thomas
PGT (Bio)

AIR FORCE SCHOOLHASIMARA
SPLIT UP SYLLABUS
2023-24

Class- XI Sc

SUBJECT-MATHEMATICS (041)

NAME OF THE BOOK- NCERT

Month	Week Dates	Period Required	Name of The Chapter	Remarks
	1	1	Familiarizing with curriculum	
July	03-08	9	SETS	Self-assessment ,Exercise questions & Activities
	11-16	9	Relation & Functions	
	18-23	9	1st Periodic Test- I Relation & Functions	
	24-29	9	Relation & Functions/ Trigonometric Functions	
	31	1	Trigonometric Functions	
Aug	01-05	5	Trigonometric Functions	Self assessment, Exercise questions
	07-12	5	Trigonometric Functions /Sequence & Series	
	14-19	5	Sequence & Series	
	21-26	6	Sequence & Series /Linear Inequalities	
	28-31	4	Linear Inequalities	
Sept	01-02	2	Principle of Mathematical Induction	Revision for Half-yearly
	04-09	4	Half Yearly EXAMINATION	Revision & Solving sample questions
	11-16	6		
	18-23	5	Permutations & Combinations	Self-assessment Exercise questions & Activities
	25-30	5	Permutations & Combinations	
Oct	02-07	5	Permutations & Combinations /Straight Lines	Self-assessment Exercise
	09-14	5	Straight Lines	
	16-19	4	Straight Lines	Self-assessment, Exercise
	Autumn Break : 20th Oct '23 - 29th Oct '23			
	30-31	1	Straight Lines	Self-assessment Exercise
Nov	01-04	4	Conic Sections	Self-assessment Exercise questions & Activities
	06-11	5	Conic Sections	
	13-18	4	Conic Sections	
	20-25	5	Conic Sections/ Statistics	
	27-30	3	Statistics	

Month	Week Dates	Period Required	Name of The Chapter	Remarks
Dec	01-02	2	Statistics	Revision
	04-09	05	Periodic Test-2	
	11-16	06	Statistics/ Mathematical Reasoning	Self-assessment Exercise
	18-23	06	Mathematical Reasoning	Self-assessment, Exercise
	Winter Break : 25stDec '23 - 13thJan '24			
Jan	15-20	06	Three Dimensional Geometry	Self-assessment Exercise questions & Activities
	22-27	05	Three Dimensional Geometry	
	29-31	02	Three Dimensional Geometry	
Feb	01-03	3	Probability	Self-assessment Exercise questions & Activities
	05-10	5	Probability	
	12-17	6	Revision	Sample-Paper/Model Q.P/ Doubt Clearing Classes
	19-24	6		
	26-29	4		
Mar	01-02	2	Annual Examination	
	04-09	5		
	11-16	6		
	18-23	6		
	25-30	6	Declaration of result	

Name of the teacher: Ranitava Bhattacharjee
PGT (Maths)

AIR FORCE SCHOOL HASIMARA
WEEKLY SPLIT UP SYLLABUS
2023-24

CLASS – XI Sc

SUBJECT : CHEMISTRY

MONTH	WEEKLY DATES	WORKING DAYS	TOPICS/ SUB-TOPICS	ASSIGNMENTS
JULY	1 3-8 10-15 17-22 24-29 31	01 05 06 06 05 01	Some Basic Concepts of Chemistry Some Basic Concepts of Chemistry Structure of Atom Structure of Atom Classification of Elements and Periodicity in Properties	Intext Questions & Exercise given in the Textbooks
AUG	1-5 7-12 14-19 21-26 28-31	05 05 05 06 04	Periodic Test-1 (Tentative) Chemical Bonding and Molecular Structure Redox Reactions Organic Chemistry : Some Basic Principles and Techniques	Intext Questions & Exercise given in the Textbooks
SEP	1-2 4-9 11-16 18-23 25-30	02 04 06 05 05	Revision Term -1 (Tentative) States of Matter : Gases and Liquids States of Matter : Gases and Liquids	Intext Questions & Exercise given in the Textbooks
OCT	2-7 9-14 16-19 30-31	05 05 04 02	States of Matter : Gases and Liquids Chemical Thermodynamics Chemical Thermodynamics Autumn Break Equilibrium	Intext Questions & Exercise given in the Textbooks
NOV	1-4 6-11 13-18 20-25 27-30	04 05 06 06 03	Equilibrium Equilibrium Revision Periodic Test –2 (Tentative)	Intext Questions & Exercise given in the Textbooks
DECEMBER	1-2 4-9 11-16 18-23	02 05 06 06	Hydrogen Hydrogen s-Block Elements s-Block Elements WINTER BREAK	Intext Questions & Exercise given in the Textbooks
JAN 24	15-20 22-27 29-31	06 05 03	Some p-Block Elements Some p-Block Elements Hydrocarbons	Intext Questions & Exercise given in the Textbooks
FEB	1-3 5-10 12-17 19-24 26-29	03 05 06 06 04	Hydrocarbons Environmental Chemistry Environmental Chemistry Revision Revision	Intext Questions & Exercise given in the Textbooks
MARCH	1-2 4-9 11-16 18-23 25-30	02 05 06 06 06	ANNUAL EXAMINATION	

Name of the teacher : Mr Nayan Das
PGT(Chem)

AIRFORCESCHOOLHASIMARA
SPLIT UP SYLLABUS
2023-24

CLASS-XISc

SUBJECT-PHYSICS

NAME OF THE BOOK- NCERT

Month	Week Dates	Period required	Topics	Remarks
Jul	01	01	General Instruction	Familiarizing with pattern
	03-08	05	CH1: Physical World	Self-assessment Exercise questions & Activities
	10-15	09	CH1: Physical World	
	17-22	07	CH2: Units & Measurements	
	24-29	09	CH2: Units & Measurements	
	31	01	CH3: Motion in a Straight Line	
Aug	01-05	07	CH3: Motion in a Straight Line	Revision
	07-12	07	CH4: Motion in a Plane	PT 1
	14-19	07	CH4: Motion in a Plane	Self-assessment Exercise questions & Activities
	21-26	09	CH4: Motion in a Plane	
	28-31	06	CH5: Laws of Motion	
Sept	01-02	02	Revision	Solving CBSE Sample paper
	04-09	04	Half Yearly Examination	
	11-16	06		
	18-23	05		
	25-30	05	CH6: Work, Energy & Power	Self-assessment Exercise questions & Activities
Oct	02-07	05	CH6: Work, Energy & Power	
	09-14	05	CH7: System of Particles & Rotational Motion	
	16-19	04	CH7: System of Particles & Rotational Motion	
	Autumn Break : 10 Oct 23 – 29 Oct 23			
	30-31	02	CH7: System of Particles & Rotational Motion	

Month	Week Dates	Period required	Topics	Remarks
Nov	01-04	04	CH8: Gravitation	Self assessment Exercise questions & Activities
	06-11	05	CH8: Gravitation	
	13-18	04	CH8: Gravitation PT2	
	20-25	05	CH9: Mechanical Properties of Solids	
	27-30	03	CH9: Mechanical Properties of Solids	
Dec	01-02	02	CH10: Mechanical Properties of Fluids	Self-assessment Exercise questions & Activities
	04-09	05	CH10: Mechanical Properties of Fluids	
	11-16	06	CH11: Thermal Properties of Matter	
	18-23	06	CH11: Thermal Properties of Matter	
	Winter Break : 25 Dec23 – 13 Jan 24			
Jan	15-20	09	CH12: Thermodynamics	Self-assessment Exercise questions & Activities
	22-27	07	CH12: Thermodynamics	
	29-31	05	CH13: Kinetic Theory	
Feb	01-03	05	CH13: Kinetic Theory	
	05-10	07	CH14: Oscillations	
	12-17	09	CH14: Oscillations	
	19-24	09	CH15: Waves	
	26-29	06	Revision	Sample-Paper/Model Q.P.
Mar	01-02	02	Annual Examination	
	04-09	05		
	11-16	06		
	18-23	06		
	25-30	06	Declaration of Result	

Sub Teacher :Soumyadip Pal
PGT(Phy)

AIR FORCE SCHOOL HASIMARA
SPLIT UP SYLLABUS
2023-24

CLASS : XI Sc

SUB: PHYSICAL EDUCATION

Name of the Book : Health and Physical education

MONTH	WEEK	PERIOD REQUIRED	TOPICS / SUB TOPICS	ASSIGNMENT
July	1	1		
	3-8	3	Changing Trends & Career in Physical education.	Self-assessment Exercise questions & Activities
	10-15	5	Practice of Physical fitness	(Practical)
	17-22	5	Olympism	Self-assessment Exercise questions & Activities
	24-29	5	Olympism	
	31	1	Practice of Physical fitness	(Practical)
Aug	1-5	5	Yoga	Self-assessment Exercise questions & Activities
	7-12	5	Practice of Asana	(Practical)
	14-19	5	Physical education and sports for CWSN	Self-assessment Exercise questions & Activities
	21-26	5	Physical education and sports for CWSN	
	28-31	4	Discussion of Project file Physical fitness, Health and wellness	(Practical)
Sep	1-2	2	Revision	Self-assessment Exercise questions & Activities
	4-9	4	Half Yearly Exam	
	11-16	6		
	18-23	5		
	25-30	5	Practice of Different Games skills	(Practical)
Oct	2-7	5	Test Measurement and evaluation.	Self-assessment Exercise questions & Activities
	9-14	5	Practice of Different Games skills	(Practical)
	16-19	4	Fundamental of Anatomy, Physiology in Sports	Self-assessment Exercise questions & Activities
	AUTUMN BREAK : 20 Oct – 29 Oct			
	30-31	2	Discussion about different games Rules, regulations & Terminology	(Practical)
Nov	1-4	4	Fundamentals of Kinesiology and Biomechanics in Sports	Self-assessment Exercise questions & Activities
	6-11	5	Fundamentals of Kinesiology and Biomechanics in Sports	Self-assessment Exercise questions & Activities
	13-18	5	Psychology & Sports	
	20-25	6	Discussion about different games Field and Equipment	(Practical)
	27-30	3		

MONTH	WEEK	PERIOD REQUIRED	CONTENT	ASSIGNMENT		
Dec	1-2	2	Revision			
	4-9	4	Periodic Test 2			
	11-16	5				
	18-23	5				
WINTER BREAK : 25 Dec – 13 Jan						
Jan	15-20	6	REVISION			
	22-27	5				
	29-31	3				
Feb	1-3	3				
	5-10	4				
	12-17	5				
	19-24	5				
	26-29	4				
Mar	1-2	2			ANNUAL EXAM	
	4-7	4				
	11-16	6				
	18-23	6				
	26-30	5				
			Declaration of Result			

Name of the teacher : Bikash Chhtri
PGT(Phy)

AIR FORCE SCHOOL HASIMARA
WEEKLY SPLIT UP SYLLABUS
Session: 2023-24

CLASS: XI SCIENCE

SUB: COMPUTER SCIENCE (083)

NAME OF THE BOOK: NCERT (REF: SUMITA ARORA)

MONTH	WEEK/ DATES	PERIOD REQUIRED	TOPIC	CONTENT	ASSIGNMENT
APRIL 2023	3-7	5	-	-	-
	10-15	6			
	17-22	6			
	24-29	6			
MAY 2023	1-6	6	-	-	-
SUMMER VACATION :- 8 MAY 23 – 16 JUNE 23					
JUNE 2023	17	1	-	-	-
	19-24	6			
	26-30	5			
JULY 2023	1-7	6	Computer Systems and Organization	Basic Computer Organization: Introduction to computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB).	EXTRA MARKS (SLM & MCQs) HOTS SAMPLE PAPER QUESTIONS
	10-15	6		Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software	
	17-22	6		Operating system (OS): functions of operating system, OS user interface .	
	24-31	7		Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits. Number system: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems. Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32).	

AUG 2023	1-5	5	Computational Thinking and Programming – 1	Introduction to problem solving: Steps for problem solving (analyzing the problem, developing an algorithm, coding, testing and debugging), representation of algorithms using flow chart and pseudo code, decomposition.	Programs like: <ul style="list-style-type: none">Find square and cube of a numberApply formula to find area and parameter of square, circle, rectangle etc.Input two numbers and display the larger / smaller number.Input three numbers and display the largest / smallest number.Codes based on usage of data types, operators and expression EXTRA MARKS (SLM & MCQs) HOTS SAMPLE PAPER QUESTIONS
	7-11	5		Familiarization with the basics of Python programming: Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode.	
	14-19	6		Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments.	
	21-26	6		Knowledge of Data Types: number (integer, floating point, complex), Boolean. Sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types.	
	28-31	4		Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators (is, is not), membership operators (in, not in) .	
SEP 2023	1-2	2	Computational Thinking and Programming – 1	Expressions, statement, type conversion & input/output: precedence of operators, expression, and evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output.	
	4-8	5		Errors: syntax errors, logical errors, runtime errors.	
	11-16	6		Term 1 Examination	
	18-23	6			
	25-30	6			
OCT 2023	2-7	6		Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control.	Programs like: <ul style="list-style-type: none">Sort three numbers and divisibility of a numberGenerating pattern, summation of series,Finding the factorial of a positive number
	9-13	5		Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value.	
	16-19	4		Iterative statements: for loop, range function, while loop, flowcharts, break and continue	

				statements, nested loops,	
	30-31	2		Revision	
AUTUMN BREAK:- 20 OCT 23 - 29 OCT 23					
NOV 2023	1-4	4	Computational Thinking and Programming – 1	Strings: introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops.	Programs like: <ul style="list-style-type: none"> Finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list. finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple. count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them Codes based on usage of Built in functions of various modules.
	6-10	5		Built-in functions of String : len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(),rstrip(), strip(), replace(), join(), partition(), split().	
	13-18	6		Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists.	
	20-25	6		Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple.	
	27-30	4		Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, Built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear().	
DEC 2023	1-2	2		Built-in functions: fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy().	EXTRA MARKS (SLM & MCQs) HOTS SAMPLE PAPER QUESTIONS
	4-8	5		Introduction to Python modules: Importing module using 'import ' and using from statement.	
	11-16	6		Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan).	
	18-23	6		Random module (random, randint, randrange), statistics module (mean, median, mode).	

WINTER BREAK:- 25 DEC 23 - 13 JAN 24					
JAN 2024	15-20	6	Society, Law and Ethics	Digital Footprints, Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes. Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache).	EXTRA MARKS (SLM & MCQs) HOTS SAMPLE PAPER QUESTIONS
	22-27	6		Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime.	
	29-31	3		Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. Safely accessing web sites: malware, viruses, Trojans, adware.	
FEB 2024	1-3	3		E-waste management: proper disposal of used electronic gadgets.	
	5-9	5		Indian Information Technology Act (IT Act).	
	12-17	6		Technology & Society: Gender and disability issues while teaching and using computers.	
	19-24	6		Revision	
	26-29	4		Revision	
MAR 2024	1-2	2	Annual Examination	<ul style="list-style-type: none"> ▪ Revision ▪ Practical work ▪ Correction of Answer scripts 	
	4-8	5			
	11-16	6			
	18-23	6			
	25-30	6			

**HOD: Mrs Neha Kumari
(PGT CS)**

**Sub Teacher: Mrs Neha Kumari
(PGT CS)**