

# CLASS - XII

## Curriculum Planner : 2021-22

### ENGLISH (Subject Code 301)

Months & Date	Topic	Arts Integrated	
April	1-15	1. The Last Lesson (Flamingo) 2. My Mother at sixty six (Flamingo) 3. Note Making	PPT making on "Importance of Language" 2. ASL Activity (Speaking Skills on Linguistic Chauvinism) 3. Collage making of pictures of various stanza & critical interpretation of lines from stanza
	16-30	1. Lost Spring (Flamingo) <b>2. Writing Skills :</b> a. Letter to Editor & b. Letter of Enquiry	1. Poster on "Child Labour" <b>2. Draft invitation for :</b> a. Ripples- Annual Fest b. School Sports Day 3. Views on current topics & solutions to be discussed with editor (experimental learning)
May	1-15	1. The Third Level (Vistas) 2. The Tiger King (Vistas)  <b>3. Writing Skills</b> a. Notice Writing b. Business & official letters	1. Experimental Learning article writing-waking dream wish fulfilment 2. PPT/Slide Show (The Tiger King)
	May Test	1. The Last Lesson 2. Lost Spring 3. My Mother at sixty six 4. Invitation 5. Notice 6. Letter to Editor	
May	16-30	1. Deep Water (Flamingo) <b>Writing Skills :</b> a. Advertisements b. Posters	1. PPT on water Sports  2. Scrap File of classified & displayed advertisements
	July	1-15	1. The Rattrap (Flamingo) 2. Indigo (Flamingo) 3. Speech / Debate 4. ASL Sessions



		<p>important freedom and correlate with the line from chapter Deep Water (Flamingo) All you have to fear is fear itself”</p> <ol style="list-style-type: none"> <li>1. PPT/Slide show about Antarctica (Subject integration- Geography, Art)</li> <li>2. PPT-Correcting Birth, The Enemy &amp; present position of Doctors.</li> <li>3. PPT making in Topic “Have Nots and deprivation (Interlink both chapters lost spring and an elementary classroom in a slum)</li> </ol>
16-31	<ol style="list-style-type: none"> <li>1. Journey to the end of the Earth (Vistas)</li> <li>2. The Enemy (Vistas)</li> <li>3. An elementary school</li> <li>4. ASL Session</li> </ol>	

**July Monday Test:**

	<ol style="list-style-type: none"> <li>1. The Rattrap (Flamingo)</li> <li>2. Writing Skills (Invitations)</li> </ol>		
<b>Aug.</b>	<ol style="list-style-type: none"> <li>1-15</li> <li>16-31</li> </ol>	<ol style="list-style-type: none"> <li>1. Keeping Quiet (Flamingo)</li> <li>2. Should Wizard Hit Money (Vistas)</li> <li>3. Note making</li> <li>1. Poets &amp; Pancakes (Flamingo)</li> <li>2. Report Writing :               <ol style="list-style-type: none"> <li>a. Newspaper Report</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Creative writing (self composed poem on Introspection)</li> <li>2. Role Play (should wizard hit money)</li> <li>1. PPT making</li> <li>2. Role Play</li> <li>3. Comic Strips making</li> <li>4. Newspaper cuttings of reports to be pasted as specimen and reporting current events. (experimental learning)</li> </ol>

**September Exam Syllabus Covered In the months of April, May, July, August**

<b>Oct.</b>	<ol style="list-style-type: none"> <li>1-15</li> <li>16-30</li> </ol>	<ol style="list-style-type: none"> <li>1. The Interview (Part1 &amp; 2) (Flamingo)</li> <li>2. Going Places (Flamingo)</li> <li>3. ASL Sessions</li> <li>4. Note making</li> <li>1. Altering of Beauty (Flamingo)</li> <li>2. On the face of it (Vistas)</li> <li>3. A Roadside Stand (Flamingo)</li> </ol>	<ol style="list-style-type: none"> <li>1. Interview question names to be framed and interviewing people. (experimental learning)</li> <li>2. PPT making/slide show</li> <li>3. Speaking Skills (Real and Fantasy World)</li> <li>1. Collage of various stanzas &amp; critical interpretation of lives.</li> <li>2. Role Play (On the face of it)</li> <li>3. Interview a roadside vendor &amp; write report (experimental learning)</li> </ol>
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**Oct. Monday  
Test**

1. The Interview
2. Going Places
3. Altering of Beauty
4. Note Making

**Nov. 1-15**

1. Evans tries an Q level (Vistas)
2. Memories of Childhood (Vistas)

1. Mind Map
2. PPT Making
3. Role of authorities in prison (Article & Speaking Skills)

**16-31**

1. Aunt Jennifer's Tiger (Flamingo)
2. ASL Sessions

1. PPT Making
2. Poster Making depicting prancing Tigers & critical interprction of poem.

**Dec.  
Term-II**

**Complete Syllabus**

## COMPUTER SCIENCE WITH PYTHON (083)

Month	Date	Topic	Art Integration
<b>April</b>	1-15	Python revision Tour	Flow chart on Data types, wall hanging on operators using waste material old cd's
	16-30	Working with Functions	Make patterns using python programs
<b>May</b>	1-15	Using python libraries, Recursion	Info graphics on Python Libraries
	16-30	Data file handling (Text Files, Binary)	Mind Maps, PPT
<b>July</b>	1-15	Data file handling (Binary, CSV)	PPT
	16-30	Data structures (List, Stack Queues)	Infographic making, PPT, Videos
<b>Aug.</b>	1-15	Rdbms, Database Management (Sql)	PPT, Infographics on network types, typologies, transmission media.
	16-30	Interface of Python with an sql database	Interactive software making
<b>Sept.</b>		<b>Term-I</b>	
<b>Oct.</b>	1-15	Program efficiency	PPT
	16-30	Project Work	
<b>Nov.</b>	1-15	Revision, Tests, Practical	Quiz
	16-30	Revision and Tests	Online quiz
<b>Dec.</b>		<b>Term-II</b>	
<b>Jan.</b>		<b>Pre-board and Practical</b>	
<b>Feb.</b>		<b>Final Papers</b>	
		<b>Tests</b>	
<b>May</b>		Revision Tour and Working with Functions	
<b>July</b>		Data File Handling	
<b>Oct./Nov.</b>		Rdbms, Database Management (Sql),	
<b>database</b>		Interface of Python with an sql	
<b>Dec.</b>		Full Syllabus	

# PHYSICAL EDUCATION

(Subject Code 048)

Month	Date	Unit No. & Name	Art Integration
<b>April</b>	1-15	Unit-I Planning in Sports	Different types of sketching Fixture
	16-30	Unit-II Sports & Nutrition	Slides Show, Chat
<b>May</b>	1-15	Unit-III Yoga & Lifestyle	Video
	16-31	Cont. Unit-III	
<b>July</b>	1-15	Unit-IV Physical Education & Sports for CWSN	Mind Mapping
	16-30	Unit-V Children & Women in Sports	Mind Mapping
<b>Aug.</b>	1-15	Unit-VI Test & Measurement in Sports	Chat, Sketching
	16-31	Contd. Unit-VI	
<b>Sept.</b>		<b>Test</b>	
<b>Oct.</b>	1-15	Unit-VII Physiology & Injuries in Sports	Photos of different types of injuries
	16-30	Contd. Unit-VII	
<b>Nov.</b>	1-15	Unit-VIII Biomechanics & Sports	Chat for different types of Movements
	16-30	Unit-IX Psychology & Sports	Mind Mapping of the lesson
<b>Dec.</b>	1-15	Unit-X Training in Sports	Chat, Sketching

## MUSIC (HINDUSTANI) VOCAL

### (Subject Code 034)

Month	Date	Topic	Project
April	1-15	1. Introduction of Music. 2. Basic knowledge of swar, Alankar, Varna, Gamak 3. Introduction of Raga-Bhairav (Bandish) 4. Biography- Krishan Rao Pandit 5. Taal-Roopak	Chart Making & Picture Pasting
	16-30	1. Biography- Abdul Karim Khan 2. Definations: Kan, Meend, Khatka, Murki 3. Raga: Bhairav (Contd.) (Taan, Alap)	
May	1-15	1. Introduction of new gayki "Tarana" 2. Taal: "Jhaptaal" with dugun & chaugun 3. Detail study of "Sangeet Parijaat"	Chart & P.P.T.
	16-27	1. Raga-Malkauns 2. Detail of Dadra, Sadra, Gram, Murchanna	
July	1-15	1. Raga-Bage shree 2. Definations: Alap & Taan 3. Time Theory of Raga	P.P.T. & Slide Show
	16-31	1. Vilambit Khayaal 2. Classification of Ragas 3. Taal-Dhamar	
Aug.	1-15	1. Sangeet Ratnakar 2. Faiyz Khan (Biography) 3. Vilambit Khayal (Contd.)	
	16-31	1. Bade Gulam Ali Khan (Biography) 2. Taal "Tilwada" with dugun & chaugun	1. Cutting & Pasting 2. Video



<b>Sept.</b>		<b>Revision &amp; Half Yearly</b>	
<b>Oct.</b>	1-15	1. Tanpura (study of various parts & tuning 2. Revision of previous raga.	Model cutting, pasting, sketching P.P.T. etc.
	16-30	1. Raga-Sudha Sarang 2. Practice of Taal	
<b>Nov.</b>	1-15	Sadra & Dadra (Gayki)	
	16-30	Revision of All Topics	

**Test (Unit Test)**

<b>May</b>		1. Raga- Bhairav (detail) 2. Taal - Roopak, Jhaptaal 3. Definations : Alankar, Varna, Gamak 4. Biography : Krishan Rao Pandit	
<b>July</b>		<b>(Monday Test)</b> 1. Alap, Taan 2. Time Theory of Ragas 3. Raga - Malkauns (detail) 4. Taal : Roopak, Jhaptaal, (dugn, chaugun)	
<b>Sept.</b>		<b>Half Yearly (All Syllabus done from April to August)</b>	
<b>Oct.</b>		<b>(Monday Test)</b> 1. Classification of Ragas 2. Notation 3. Taals	
<b>Nov.</b>		<b>(Monday Test)</b> 1. Notation 2. Taals 3. Ratnakar 4. Parijat	
<b>Dec.</b>		<b>Complete Syllabus Pre-Board Exams</b>	

# MATHEMATICS

## (Subject Code 041)

Month	Date	Chapter	Activity
April	1-15	Ch-1: Relations & Functions	1. Verify the relation $R$ in the set of all lines in a plane defined by $R \rightarrow \{(l, m); \text{lines}\}$ is an equivalence relation (By cutting & pasting)
		Ch-2: Ch-3	2. Demonstrate a function which is one and onto (b) one one but not onto (contd.) graph of $\text{Cos-}1x$ (sketching)
	16-30	Inverse Trigonometric functions Matrices, part of ch-5	
May	1-15	Determinants Continuity	PPT, Mind Mapping PPT, Mind mapping
	15-28	Ch-5: Differentiability	Mind mapping
June	<b>Summer Vacations</b>		
July	1-15	Ch-6: Application of Derivatives	Verify the conditions when the function is increasing & decreasing verify the maximum & minimum value of function. Cutting and pasting, sketching, Mind mapping
	16-31	Ch-7: Integrals (indefinite)	Mind mapping
Aug.	1-15	Definite, integral Application of integral	Find area bounded by two intersecting curves (sketching)
	16-31	Ch-9: Differential equation	Formation of differential equation the explain the process of cooling of boiled water to a given room temperature.
Sept.	<b>Revision and Term-I</b>		
Oct.	1-15	Ch-10: Vector Algebra	Concept map, Measure the distance between two lines sketching.
	16-31	Ch-11: Three Dimensional Geometry	Demonstrate different equations of plane, distance of a point from the given plane sketching.
Nov.	1-15	Ch-12: Linear Programming	To minimize the cost of food meeting the dietary requirements of the staple food of the






		adolescent students of your school. PPT, Concept Map
15-30	Ch-13: Probability	
<b>Dec.</b>	<b>Revision</b>	
<b>Jan.</b>	<b>Revision</b>	
<b>Feb.</b>	<b>Revision</b> <b>Syllabus</b>	
<b>May Exam</b>	Ch-1 & 2	
<b>July Monday</b>	Ch-1 to 4	
<b>Test</b>		
<b>Sept. Exam (Term-I)</b>	Part-I and indefinite integrals	
<b>Oct.-Nov.</b>	Vector, Algebra & three dimensional	
<b>Monday Test</b>	Geometry	
<b>Dec. (Term-II)</b>	Part-II N.C.E.R.T.	
<b>Jan. Pre-Board</b>	Full Syllabus	

**Summer Vacation Home Work :** Assignments based on Ch-1 to 5 will be given

## CHEMISTRY

(Subject Code 043)

Month	Date	Unit Name/Number	Art Integrated Activity
<b>April</b>	1-15	Chapter-1	1. 3D packing models 2. Videos
	16-30	Chapter-2	1. Videos on Henry's law 2. Videos on Osmotic pressure 3. Activity on positive & negative
<b>May</b>	1-15	Chapter-3	Videos on Electro chem Cell Project on Corrosion, sketching
	16-31	Chapter-4	1. Videos of activities based on rate of reaction.
		Chapter-5	1. Sketching of graphs. 2. Video on cleansing action of soaps & detergents. 3. Activity on Tyndass effect and Emulsions

			
June	Summer Vacations		
<b>July</b>	1-15	Chapter-6	1. Videos on extraction of metals 2. Sketching
	16-31	Chapter-7	Videos on manufacturing of Nh <sub>3</sub> , HNO <sub>3</sub> & H <sub>2</sub> SO <sub>4</sub>
<b>Aug.</b>	1-15	Chapter-8	1. Videos on lasthanoid contraction 2. Sketching
	16-31	Chapter-9	1. PPT's 2. Sketching
<b>Sept.</b>	<b>Term-I (Ch-1 to 9)</b>		
<b>Oct.</b>	1-15	Chapter-10	1. Role play on SN1 & Sn2 mechanism 2. Sketching 3. Route Map
	16-31	Chapter-11	1. Route Map 2. PPT on commercial alcohol
<b>Nov.</b>	1-15	Chapter-12 Chapter-13	1. Role Play 2. Route Map 3. Videos 4. PPT on uses of aninos 5. Activity to distinguish between 1°, 2° and 3° amino
	16-30	Chapter-14, 15 & 16	
<b>Dec.</b>	<b>December Exam (Full Syllabus)</b>		
<b>Jan.</b>	<b>Revision and Pre-Board</b>		
<b>Feb.</b>	<b>Final Practical</b>		

## CHEMISTRY PRACTICALS

<b>May</b>	1. Preparation of Mohr's salt crystals 2. Titration of $\text{KMnO}_4$ vs Mohr's salt
<b>July</b>	1. Identification of acid radicals 2. Identification of basic radicals
<b>Oct.</b>	1. Identification of acid and basic radicals from given unknown salt 2. Titration of $\text{KMnO}_4$ vs Oxalic acid
<b>Nov.</b>	1. Identification of different functional groups from given organic compound 2. Revision of Chemistry Practical

### Syllabus for Exams

<b>May, Class Test</b>	Ch-1 and 2
<b>July</b>	Ch-3 and 4
<b>Oct.-Nov.</b>	Ch-10
<b>Sept. Term-I</b>	Ch-1 to 9
<b>Dec. Term-II</b>	Full Syllabus
<b>Pre-Board</b>	Full Syllabus

## PHYSICS

(Subject Code 042)

Month	Syllabus	Practical's (key words)	
April 1 <sup>st</sup> – 15 <sup>th</sup>	<u>Unit 1</u> (Contd.): Electrostatics-I <u>Unit 1</u> (Contd.): Electrostatics-II	1. Verification of Ohm's law, to find resistance per cm 2. To find resistivity by meter bridge	
April 16 <sup>th</sup> – 30 <sup>th</sup>	<u>Unit 1</u> (Contd.): Electrostatics-II <u>Unit 2</u> : Current Electricity	3. To verify laws of combinations of resistances 4. To compare emf's of two cells. 5. To find internal resistance of a cell	
May 1 <sup>st</sup> – 20 <sup>th</sup>	<u>Unit 2</u> (Contd.): Current Electricity <u>Unit 9</u> : Electronic Devices	6. To study V-I characteristic of diode. 7. To draw the characteristics of Zener diode.	PPTs (Unit 1 & 2)
<b>June Summer Vacation</b>	<b>Solve NCERT book back exercises &amp; Assignment given</b>		<b>Model Making</b>
July 1 <sup>st</sup> – 15 <sup>th</sup>	<u>Unit 3</u> : Magnetic Effects of Current (MEC)	8. To find resistance of galvanometer	Sketching of Moving Coil Galvanometer

July – 16 <sup>th</sup> – 31 <sup>st</sup>	<u>Unit 3 (Contd.)</u> MEC and Magnetism <u>Unit 4:</u> Electro Magnetic Induction (EMI)	9. To convert galvanometer into voltmeter	Sketching of Cyclotron
August 1 <sup>st</sup> – 15 <sup>th</sup>	<u>Unit 4 (Contd.)</u> Alternating Currents	10. To find refractive index using travelling microscope	PPT (For Revision)
August 16 <sup>th</sup> -31 <sup>st</sup>	<u>Unit 5 :</u> Electromagnetic waves <u>Unit 6:</u> Ray Optics	11. To find focal length of convex lens 12. To find focal length of concave mirror	Drawing (Ray Diagrams)
September 1 <sup>st</sup> – 15 <sup>th</sup>	Revision		
September 16 <sup>th</sup> – 30 <sup>th</sup>	TERM I		
October 1 <sup>st</sup> – 15 <sup>th</sup>	<u>Unit 6 (Contd.) :</u> Ray Optics Wave optics	13. To find angle of minimum deviation of prism	PPTs (for Recap)
October 16 <sup>th</sup> -31 <sup>st</sup>	<u>Unit 6 (Contd.)</u> Wave optics	14. To find focal length of convex mirror using convex lens	
November 1 <sup>st</sup> – 15 <sup>th</sup>	<u>Unit 7:</u> Dual Nature of Matter <u>Unit 8:</u> Atoms and Nuclei	15. To find focal length of concave lens using convex lens.	
November 16 <sup>th</sup> – 30 <sup>th</sup>	<u>Unit 8 (Contd.):</u> Atoms and Nuclei		Drawing (Be Curve)

**BIOLOGY**  
**(Subject Code 044)**

