MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI – 62
PT- I Syllabus (2024-25)
CLASS X
ENGLISH LANGUAGE & LITERATURE (184)
NAME OF THE BOOK: FIRST FLIGHT (NCERT)
FOOTPRINTS WITHOUT FEET (NCERT)
WORDS AND EXPRESSIONS - II (NCERT)
CBSE ENGLISH LANGUAGE AND LITERATURE – PRACTICE BOOK (PP PUBLICATIONS)

CHAPTERS	ACTIVITIES
FIRST FLIGHT (PROSE) Ch 1 – A Letter to God **(PT I)** Ch 2- Nelson Mandela...Long Walk to Freedom **(PT I)** Ch 3- Two Stories About Flying Ch 4 – From the diary of Anne Frank **FIRST FLIGHT (POETRY)** Poem 1 – Dust of Snow **(PT I)** Poem 2 – Fire and Ice **(PT I)** Poem 3 – A Tiger in the Zoo Poem 4 – How to tell wild animals **FOOTPRINTS WITHOUT FEET** Ch 1 – A Triumph of Surgery **(PT I)** Ch 2 – The Thief's Story Ch 3- The Midnight Visitor **WRITING SKILLS** 1.Formal letter based on a given situation **(PT I)** **GRAMMAR** 1. Subject – Verb Concord **(PT I)** 2. Determiners **WORDS AND EXPRESSIONS – II** 1. Unit 1 2. Unit 2 **PRACTICE BOOK (PP PUBLICATIONS)** Literature Writing Skills Grammar	**ART INTEGRATION** **Ch 1** – Visit any nearby Post Office. Collect any two items from the Post Office. It can be stamp/ envelope/ Telegram/ Inland letter card etc. Paste them on A4 size sheet. On an A4 size sheet, Write a letter to the bookseller from where you purchased the book set of your class complaining about a book missing from the set. **Integration with Social Science** **Ch 2** – Prepare a Project File including the following things- a. Cover Page b. Acknowledgement c. Index d. About Nelson Mandela's contribution in Constitutional Design. e. Summary f. Draw the National Flag of South Africa g. Conclusion

BLUE PRINT

TIME: 1 Hr.   **MAX. MARKS: 20**

	1 Mark	2 Marks	3 Marks	4 Marks	Total	Percentage % Weightage
Section A: (5 marks)						25
Unseen Passage	5	-	-	-	5	
Section B : (7 marks)				-		35
Formal Letter	-	-	1	-	3	
Grammar	4	-	-	-	4	
Section C: (8 marks)						40
Short Answer Question	-	2	-	-	4	
Long Answer Question	-	-	-	1	4	
Total	**9X1=9**	**2X2=4**	**1X3=3**	**4X1=4**	**20**	**100**

हिंदी (085)

पाठ्यपुस्तक – स्पर्श
संचयन
टुगेदर विथ-सीबीएसई क्रेश्चन बैंक

पाठ का नाम	क्रियाकलाप
पाठ्यपुस्तक– स्पर्श **काव्य खंड** पाठ-1 कबीर- साखी (PT-1) पाठ-2 मीराबाई **गद्य खंड** पाठ-1 बड़े भाई साहब (PT-1) पाठ-2 डायरी का एक पन्ना **संचयन** पाठ-1 हरिहर काका (PT-1) **व्याकरणपरिचय** - पदबंध (PT-1) - मुहावरे (PT-1) - समास - अपठित गद्यांश (PT-1) - पत्र और अनुच्छेद लेखन (PT-1)	- रहीम और कबीर के दोहों की दोहा-अंत्याक्षरी (समूह कार्य) - मीराबाई के समकालीन कवियों की सचित्र समयरेखा तैयार करें - कॉमिक स्ट्राइप बनाएँ और माइंड मैप तैयार करें १८५७ का विद्रोह कहाँ-कहाँ हुआ और किसके द्वारा पहल की गई का मानचित्र पर चित्र सहित अंकन (सामाजिक विज्ञान) 3-2-1 **क्रियाकलाप**/'देखो,सोचो,आश्चर्य करो' गतिविधि का आयोजन - मौखिक और लिखित अभ्यास (कार्यपत्र के माध्यम से) - समास व उसके भेदों को चार्ट पेपर पर बनाइए। - मुहावरे-'बूझो तो जाने'

प्रश्न-पत्र का प्रारूप

समय: 1 घंटे   पूर्णांक: 20

क्रम संख्या	पाठ्य क्रमानुसार इकाइयां	इकाई पर आवंटित अंक	1 अंक	2 अंक	3 अंक	कुल प्रश्न
				अंक वार प्रश्नों की संख्या		
1	**अपठित गद्यांश**	5	3	1		1
2	**व्याकरणपरिचय** • पदबंध • मुहावरे	 2 2	 2 2			 2
3	**पाठ्यपुस्तिक** **काव्य खंड** पाठ -1 कबीर- साखी **गद्यखंड** पाठ-1 बड़े भाई साहब **संचयन** पाठ -1 हरिहर काका	 3 3 2		 3 1		 2
4	पत्र और अनुच्छेद लेखन	3	-		1	1
	योग	20	7X1=7	5X2= 10	1X3=3	06

Mathematics

Name of the chapter	Lab Activity
Chapter 1: Real numbers (PT-1)	To Represent Irrational Numbers on the number line.
Chapter 2: Polynomials (PT-1)	To draw the graph of a quadratic polynomial and observe : (a) The shape of the curve when the coefficient of x 2 is positive. (b) The shape of the curve when the coefficient of x^2 is negative. (c) Number of zeroes.
Chapter 6: Triangles	To prove that the line drawn parallel to one side of a triangle intersecting the other two sides divides them in the same ratio. To verify that "the square of the hypotenuse is equal to the sum of squares of the other two sides in a right triangle."
Chapter 7: Coordinate Geometry (PT-1)	To find the distance between two points whose coordinates are given and to verify the same by using the distance formula. To derive section formula.
Chapter 12: Surface Areas and Volumes	To verify that the surface area of a sphere is four times the area of a circle of the same radius.
Chapter 14: Probability	To find the probability of the sum of numbers on a pair of dice through an activity.

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TIME: 1 Hr.   **MAX. MARKS: 20**

S.No.	CHAPTERS	Objective Questions (1Mark)	Very Short Questions (2 Marks)	Short Questions (3 Marks)	Source Based Questions (4 Marks)	Long Questions (5 Marks)	Total Marks	Percentage (%) Weightage
1.	Chapter 1: Real numbers	1	1	1	-	-	6	30
2.	Chapter 2: Polynomials	2	-	-	1	-	6	30
3.	Chapter 7: Coordinate Geometry	1	1	-	-	1	8	40
Total		1X4=4	2X1=4	3X1=3	4X1=4	5X1=5	20	100

NAME OF THE BOOK: NCERT SCIENCE

V.K SCIENCE PHYSICS

V.K SCIENCE CHEMISTRY

V.K SCIENCE BIOLOGY

SUBJECT	CHAPTERS	ACTIVITY / EXPERIMENT
PHYSICS	Ch-9, Light – Reflection and Refraction (PT-1)	**ACTIVITY** ● Draw ray diagrams using thread, bangles, fevicol, old cardboard, or other material of your choice in groups of 4-5 students and present in classroom. ● Perform and show the sun rays focused by a concave mirror on a piece of paper. **EXPERIMENT** ● Determination of the focal length of the Concave mirror by obtaining the image of a distant object. ● Determination of the focal length of the Convex lens by obtaining the image of a distant object. ● Finding the image distance for varying object distance in case of Convex lens and drawing corresponding ray diagrams to show the nature of image formation.
CHEMISTRY	Ch-1, Chemical Reactions and Equations (PT-1)	**ACTIVITY** ● Make a flow chart indicating the types and sub-types of reactions with their examples (group activity). ● Gamification to explain the chemical reactions using cards game. (Students will take turns to reveal the top card in the stack and identify the reaction shown on the card. Correct answer will earn points). **EXPERIMENT** ● To perform and observe the following reactions: combination, decomposition, displacement and double displacement reaction.
	Ch-2, Acids, Bases and Salts	**ACTIVITY** ● Neutralise me/ look for my salt game- Prepare 30 cards having the names of different 10 salts, 10 acids and 10 base (group activity). ● Prepare the Mind map of the chapter. ● Record the pH of various beverages that we consume in our daily life. Also check their implication of teeth/bones. **EXPERIMENT** ● Find the pH of the samples by using pH paper. ● To study the properties of acids and bases.
BIOLOGY	Ch-5, Life Processes (PT-1)	**ACTIVITY** ● To demonstrate opening and closing of stomata using orange fruit, coriander leaves, thread, A-4 size sheet. ● To conduct an awareness campaign on different life processes related health problems. ● Prepare a wall hanging or 3-D model of any one organ system. **EXPERIMENTS** ● To prepare temporary mount of a leaf peel to show stomata. ● To show that carbon-dioxide is given out during respiration.
	Ch- 13, Our Environment	**ACTIVITY** ● Prepare an ozone layer model. ● Write a letter to the god stating the present condition of the earth/ gratitude letter to god.

BLUE PRINT

TIME: 1 Hr.   **MAX. MARKS: 20**

S.No	CHAPTERS	Objective Questions (1Mark)	Very Short Questions (2 Marks)	Short Questions (3 Marks)	Source Based Questions (4 Marks)	Long Questions (5 Marks)	Total Marks	Percentage (%) Weightage
1.	Ch-1, Chemical Reactions and Equations	1	1	1	-	-	6	**30**
2.	Ch-5, Life Processes	2	-	-	1	-	6	**30**
3.	Ch-9, Light – Reflection and Refraction	1	1	-	-	1	8	**40**
Total		**1X4=4**	**2X2=4**	**3X1=3**	**4X1=4**	**5X1=5**	**20**	**100**

<p style="text-align:center"><u>SOCIAL SCIENCE (087)</u></p>

NAME OF THE BOOK: India and the Contemporary World-II
Contemporary India-II
Democratic Politics-II
Understanding Economic Development

CHAPTERS	ACTIVITIES
HISTORY Ch-1. The Rise of Nationalism in Europe (PT-I)	Portfolio of the great leaders-eg. Napoleon, Otto Von Bismarck, Giuseppe Mazzini
GEOGRAPHY Ch-1. Resources and Development	Mind map
ECONOMICS Ch-1. Development	Calculation of BMI. (Individual Activity)
POLITICAL SCIENCE Ch-1. Power Sharing (PT-I) Ch-2. Federalism (PT-I)	Let's help Vikram: Khalil's dilemma Newspaper- based on different articles related to political news (Group Activity)

<p style="text-align:center"><u>BLUE PRINT</u></p>

TIME: 1 Hr.   **MAX. MARKS: 20**

S. No.	Name of the Chapters	MCQ (1 Mark)	Short Type Question (3 Marks)	Source Based Question (4 Marks)	Long Question (5 Marks)	Total Marks	Percentage (%) Weightage
1	**Ch-1** The Rise of Nationalism in Europe	1	-	1	1	10	50
2	**Ch-1** Power Sharing	1	-	1	-	05	25
3	**Ch-2** Federalism	2	1	-	-	05	25
	Total	**1 x 4 =04**	**3 x 1 = 03**	**4x2=08**	**5 x 1 =05**	**20**	**100**

ARTIFICIAL INTELLIGENCE (417)

NAME OF THE BOOK-Artificial Intelligence

Part-A Employability skills	**ACTIVITY/PRACTICAL**
Unit -1 : Communication Skills-II (PT-I)	Divide the class into four groups. Ask each group to use different visual aids and prepare a campaign on social awareness on any one issue. ➢ Woman empowerment ➢ Global warming Observe a shopkeeper (such as grocery owner, chemist, fruit seller etc.) in your neighbourhood for a week and write in 50 words how he/she shows courtesy(7cs) towards his/her customers.
Unit –2: Self- management Skills-II(PT-I)	Divide the class into three groups. Ask each group to prepare a role play demonstrating the importance of self-awareness, self-motivation and self-regulation in building leader.
Part-B Subject Specific Skills	
Unit-1: Introduction to AI(PT-I)	Suppose you are a business person exploring the use of AI for customer engagement. Describe the benefits of implementing chatbots with NLP capabilities to provide an effective and efficient customer support.
Unit- 2 AI Project Cycle	You are developing a mobile app that helps users track their calorie intake and provides personalized dietary recommendations. Which data features would be important for this AI project?

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TIME: 1 Hr.   **MAX. MARKS: 20**

Name of the Chapters	MCQ (1 Marks)	Short Answer Question (2 Marks)	Long Answer Question (4 Marks)	Total	Percentage (%) Weightage
Communication Skills-II	1	1	-	3	15
Self-Management Skills-II	1	1		3	15
Introduction to AI	6	2	1	14	70
Total	**1x8=8**	**2x4=8**	**4x1=4**	**20**	**100**

INFORMATION TECHNOLOGY (402)

NAME OF THE BOOK-Basics of Information Technology

CHAPTER	ACTIVITY/PRACTICAL
Unit 1 Communication Skill I	● Observe a shopkeeper (such as grocery owner, chemist, fruit seller etc.) in your neighborhood for a week and write in 50 words how he/she shows courtesy(7cs) towards his/her customers ● Make a collage of different types of facial expression (happy, sad or angry etc)
Unit 2 Self-management skill I	● Divide students into pairs and have them role-play stressful situations, then brainstorm positive ways to cope with these situations. ● Discuss the importance of physical and mental well-being. ● Encourage students to engage in activities that promote self-care and stress reduction (e.g., exercise, hobbies, mindfulness).
Part B	
Unit 1 Digital documentation(Advanced)	● Create a digital portfolio showcasing their projects, achievements, and skills Use platforms like Google Sites, Wix, or Weebly. ● Create interactive documents using tools like Adobe Acrobat or Google Forms. Add features like hyperlinks, audio, or video. ● Draw any three drawing objects inside a newly opened document and group the objects. Write down in your notebook, the advantages of being able to group objects. ● Insert an image into the first page. Choose the crop page. Tinker with the values of top and bottom and see how it allows to crop the image to your liking.

BLUE PRINT

TIME: 1 Hr.   **MAX. MARKS: 20**

	MCQ(1 Marks)	Short Answer Question(2 Marks)	Long Answer Question(4 Marks)	Total	Percentage (%) Weightage
Communication Skills-II	1	1	-	3	15
Self-Management Skills-II	1	1	-	3	15
Digital documentation (Advanced)	6	2	1	14	70
Total	**1x8=8**	**2x4=8**	**4x1=4**	**20**	**100**

ART

1. **INTRODUCTION:** Elements of Art- Line, Shape, Form, Space, Value, Texture and Colour (Theory) (Pg.6)
2. **UNIT-7 ART HISTORY (PAINTINGS):** 'Brahmacharis' by Amrita Sher-Gil (Pg.83) 'Monalisa' by Leonardo Da Vinci (Pg.85), 'The Starry Night' by Vincent Van Gogh (Pg.86), 'Water Lilies' by Claude Monet (Pg.88), Mughal Painting (Pg.94) (Theory)
3. **UNIT-7 ART HISTORY (PAINTINGS):** Jamini Roy (Pg.82), Phad Painting (Pg.93), Buddhist Art (Pg.101), Ajanta Art (Pg.102) (Draw and Colour)

WORK EDUCATION

1. Canvas Painting
2. Thread Art
3. Pot Painting