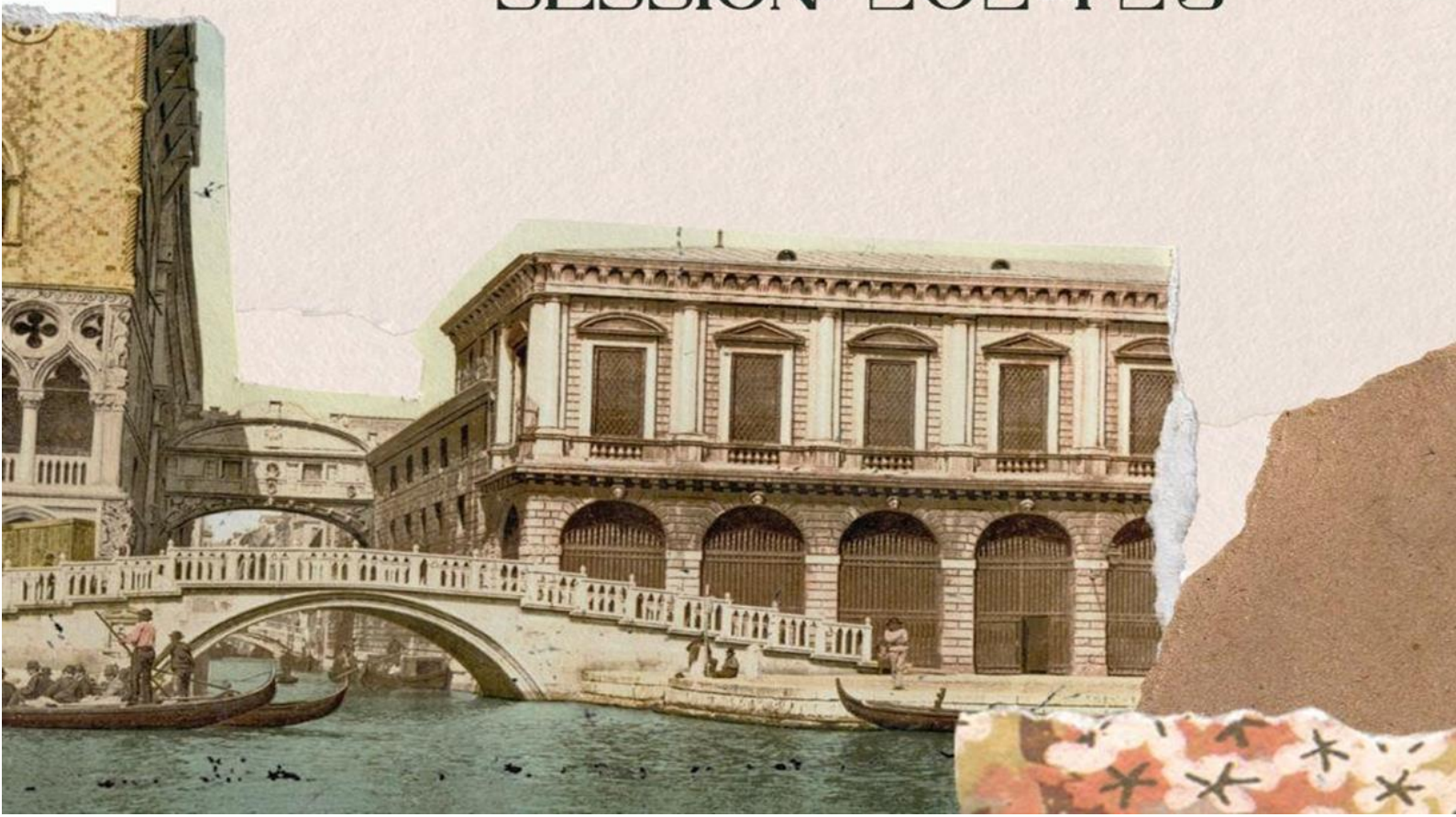




**DELHI PUBLIC SCHOOL JAMMU  
HOLIDAY HOMEWORK  
SESSION: 2024-25**



## 1. 'BRING POETRY TO LIFE'

### ❖ WHAT TO DO-

- Read any one of the following poems from the book 'Beehive':

1. The Road Not Taken
2. Wind

- Choose the stanza/line you like the most in the poem and showcase it with a creative twist.

- ❖ **HOW TO DO:** Use your imagination to convert the poem in an artistic representation on A3 or A4 sheets.

- ❖ **The presentation should be self- explanatory.**

## 2. 'DESIGN YOUR OWN NEWSPAPER'

### ❖ WHAT TO DO: Design a Unique Newspaper with Content That Matters to You!

\*The newspaper should have five sections:

1. Facts and figures of English language
2. Creative Corner- Your classroom poetry or story
3. Quotes- By famous poets with their names
4. Entertainment
5. Games & Puzzle- based on tenses, verbs, prepositions or conjunctions. (Any one) For example Snakes & Ladder on prepositions.

- ❖ **HOW TO DO:** To create your newspaper, first, compile interesting data for "**Facts and Figures of the English Language.**" This could include stats about the number of English speakers worldwide, how many words are in the dictionary, or significant historical events that shaped the language. For "**Creative Corner,**" gather original poetry or short stories from your classmates, adding illustrations or decorative elements to make it visually appealing. In the "**Quotes**" section, list notable quotes from famous poets or authors, ensuring you credit them properly. In "**Entertainment,**" provide brief reviews of popular books, films, or music relevant to your classroom's interests. Finally, design a "**Games & Puzzles**" section with crosswords or word searches focusing on grammar concepts like tenses, verbs, prepositions, or conjunctions.

- ❖ **WHERE TO DO: A4 Size sheets (5 pages)**

- ❖ **PARAMETERS FOR ASSESSMENT: Quality of content, originality and presentation**

**CLASS IX  
HINDI LANGUAGE**

**SUB-HINDI**

1) अनुच्छेदलेखन-

(1) प्लास्टिक की दुनिया

- कृत्रिम पदार्थ
- उपयोग
- गुणअवगुण
- जिम्मेदारी

(2) कैसा शासन बिन अनुशासन

- अनुशासन की आवश्यकता
- अनुशासनहीनता के कारण

(3) हिंदी हमारी पहचान

- मातृभाषा के रूप में
- संपर्क भाषा के रूप में

2) पत्र लेखन-

(1) परीक्षा की सफलता पर बधाई देते हुए मित्र को पत्र लिखिए।

(2) ग्रीष्मावकाश बिताने के लिए अपनी सखी को निमंत्रित करने के लिए पत्र लिखिए।

(3) छात्रावास में रहने वाले छोटे भाई को मन लगाकर अध्ययन करने की सलाह देते हुए पत्र लिखिए।

(4) फैशन में समय और धन का अपव्यय करने वाली छोटी बहन को बड़ी बहन की ओर से एक प्रेरणा पत्र लिखिए।

3) व्याकरण-

(क) शब्द तथा पद ( व्याकरण परिचय से पुनरावृत्ति कार्य )

(ख) अनुस्वार व अनुनासिक ( व्याकरण परिचय से पुनरावृत्ति कार्य )

(ग) उपसर्ग व प्रत्यय ( पाठ के आधार पर )

## HINDI LITERATURE

### कला एकीकृत परियोजना (I)

प्रगतिशील भारतीय महिलाओं से संबंधित चित्रों का संग्रह कीजिए एवं संक्षिप्त जानकारी प्राप्त करके परियोजना कार्य तैयार कीजिए।



### कला एकीकृत परियोजना (II)

भक्तिकालीन कवियों में से किसी एक सचित्र जानकारी रचना सहित लिखिए।



#### पाठ्यक्रम (For revision)

स्पर्श- रैदास , रहीम

दुख का अधिकार , एवरेस्ट मेरी शिखर यात्रा

संचयन- गिल्लू, स्मृति

कृपया उपर्युक्त पाठ्यक्रम को अच्छे से पढ़िए तथा लिखकर अभ्यास कीजिए।

निर्देश -

- \* सारा कार्य Practical Sheets पर कीजिए।
- \* रचनात्मक कार्य करते हुए प्रारूप का ध्यान अवश्य रखिए।
- \* एवरेस्ट मेरी शिखर यात्रा , स्मृति स्वाध्ययन के लिए दिया गया है।
- \* कृपया लेख का ध्यान अवश्य रखिए।

### File Details

* File Cover:
* First Page : विचार वाक्य सुविचार (Quotation)
* Second Page : व्यक्तिगत विवरण (Bio-Data)
* Third Page : आमुख (Preface)
* Fourth Page : कृतज्ञता अभिव्यक्ति / आभार (Acknowledgement)
* Fifth Page : अनुक्रमणिका (Index)
* Hindi Language Content
* Hindi Literature Content
* Last Page: सहायक सामग्री (Bibliography)

### आमुख

जिज्ञासा और बौद्धिक किवास को ध्यान में रखकर मैंने यह परियोजना बनाने का प्रयास किया है। इस परियोजना का उद्देश्य वर्तनी का सही प्रयोग भाषा का किवास करना नैकित एवं चारित्रिक विकास करना है तो वहीं दूसरी ओर प्राकृतिक प्रेम, देश प्रेम, मानव प्रेम के महत्व को भी दर्शाना है। मेरी यह परियोजना का उद्देश्य लेखन के साथ-साथ कल्पना को विकसित करना भी है। मैंने अपनी परियोजना में लिंग, वचन, पर्यायवाची, शब्द रचना, वाक्य रचना आदि का प्रयोग करने का भरपूर प्रयास किया है तथा चित्रों के माध्यम से अपनी विषय वस्तु को समझाने का प्रयास किया है।

### आभार

मैं अपने शिक्षिका के प्रति आभार व्यक्त करना चाहता / चाहती हूँ। उन्होंने मुझे इस परियोजना के लिए प्रेरित किया। उनकी सहायता और प्रोत्साहन के बिना इस परियोजना का सफल होना संभव नहीं था। मैं अपने प्रधानाचार्या का /की आभारी हूँ। उन्होंने मुझे अनुसंधान करने और इस अद्भुत परियोजना को पूरा करने का अवसर दिया। मैं अपने माता- पिता को धन्यवाद कहता हूँ। उन्होंने मुझे इस परियोजना को पूरा करनेके लिए प्रोत्साहित किया। मैं अपने साथ के सभी विद्यार्थियों को धन्यवाद कहता हूँ। उन्होंने इस परियोजना को पूरा करने में मेरी मदद करी।

**CLASS: IX**

**SUBJECT: MATHEMATICS**



**1. Solve all questions**  
**Topic: Polynomials**

Q1. Find the value of  $x^3 + y^3 + z^3 - 3xyz$  if  $x^2 + y^2 + z^2 = 83$  and  $x + y + z = 15$

Q2. If  $a + b + c = 15$  and  $a^2 + b^2 + c^2 = 83$ , find the value of  $a^3 + b^3 + c^3 - 3abc$ .

Q3. Factorise  $x^2 - 1 - 2a - a^2$ .

Q4. If  $(x - 1/x) = 4$ , then evaluate  $(x^2 + 1/x^2)$  and  $(x^4 + 1/x^4)$

Q5. Compute the value of  $9x^2 + 4y^2$  if  $xy = 6$  and  $3x + 2y = 12$ .

Q6. Find the value of the polynomial  $5x - 4x^2 + 3$  at  $x = 2$  and  $x = -1$ .

**Topic: NUMBER SYSTEM**

Q1. Locate  $\sqrt{3}$  on the number line.

Q2. Rationalize the denominator:

$$\frac{1}{4 + \sqrt{2} + \sqrt{5}}$$

Q3. Express 0.4323232... in the form  $p/q$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .

Q4. Represent  $\sqrt{3.5}$  on the number line

Q5. Find three different irrational numbers between the rational numbers  $5/7$  and  $9/11$ .

## Topic: Pair of Linear Equations in Two Variables

- Q1. The taxi fare in a city is as follows: For the first kilometre, the fare is ₹ 8 and for the subsequent distance it is ₹5 per km. Taking the distance covered as  $x$  km and total fare as ₹  $y$ , write a linear equation for this information, and draw its graph.
- Q2. Find the value of  $k$ , if  $x = 2$ ,  $y = 1$  is a solution of the equation  $2x + 3y = k$ .
- Q3. Find the four solutions of  $\pi x + y = 9$
- Q4. If the point  $(3, 4)$  lies on the graph of the equation  $3y = ax + 7$ , find the value of  $a$ .
- Q5. Draw the graph of  $x - y + 1 = 0$  and  $3x + 2y - 12 = 0$ . Calculate the area of the triangle bounded by these lines On X axis.

## Topic: COORDINATE GEOMETRY

- Q1 Points A  $(5, 3)$ , B  $(-2, 3)$  and D  $(5, -4)$  are three vertices of a square ABCD. Plot these points on a graph paper and hence find the coordinates of the vertex C.
- Q2 Plot the following points and write the name of the figure obtained by joining them in order:  
P  $(-3, 2)$ , Q  $(-7, -3)$ , R  $(6, -3)$ , S  $(2, 2)$
- Q3 Locate the points  $(5, 0)$ ,  $(0, 5)$ ,  $(2, 5)$ ,  $(5, 2)$ ,  $(-3, 5)$ ,  $(-3, -5)$ ,  $(5, -3)$  and  $(6, 1)$  in the Cartesian plane.
- Q4 Without plotting the points indicate the quadrant in which they will lie, if
- (i) the ordinate is 5 and abscissa is  $-3$
  - (ii) the abscissa is  $-5$  and ordinate is  $-3$
- Q5 Plot the following points and check whether they are collinear or not:
- (i)  $(1, 3)$ ,  $(-1, -1)$ ,  $(-2, -3)$
  - (ii)  $(1, 1)$ ,  $(2, -3)$ ,  $(-1, -2)$
  - (iii)  $(0, 0)$ ,  $(2, 2)$ ,  $(5, 5)$

**1. Prepare a mind map of the topic as per given Roll no.**

Roll no. – 1 to 10 – Polynomials

Roll no. – 11 to 20 – Number system

Roll no. – 21 to 30 – Linear Equation in two variables

Roll no. - 31 to 42 - Coordinate Geometry

**Where to do** : In A3 size sheet

**Parameters** :

- a. Presentation
- b. Neatness
- c. Content

**2. NCERT** : Do all examples of Ch 1, 2,3 & 4

**Where to do**: In practice notebook

**Parameters**:

- d. Content
- e. Accuracy

**NOTE:- Dear students**

**Please record a video of your activity , and the best one will be displayed in class**



## 4. Perform the activity given below.

DELHI PUBLIC SCHOOL JAMMU

Session-2023-24

Activity Sheet

CLASS: X MONTH: May SUBJECT: Mathematics

TOPIC: Polynomials

Learning objectives based on the activity: Thinking and reasoning power will be developed.

Practical application through factorizing polynomial using coloured paper/cryons. Procedure:

Factorize  $2x^2 + 13x + 15$

$$2x^2 + 13x + 15$$

Factorizing polynomial will be explained either by using coloured paper strip or by using crayons for highlighting.

**THE AC METHOD using the BOX method**

$$2x^2 + 13x + 15$$

$a=2$     $b=13$     $c=15$

$a \cdot c = 2 \cdot 15 = 30$

FACTORS of $a \cdot c = 30$	SUM of $b = 13$
1, 30	31 X
2, 15	17 X
3, 10	13 ✓

**WHAT IS THE GCF?**

$2x$	$2x^2$	$10x$
$3$	$3x$	$15$

$(x + 5)(2x + 3)$

### WATCH AND REFLECT ACTIVITY

Watch

1. <https://youtube/enHai1y5knc>

2. youtube videos in mycbseguide. Take different type of quadratic polynomial from textbook and factorize in similar way. TOPICS OF MONTHS:

1. Polynomials. 2. Real Numbers.

NOTE- Student will have to prepare a report based on the activity in their subject note book/

Practical file and best entries will be awarded

**PHYSICS**

Newton's law of motion are an inherent property of our everyday life. Starting from the beginning of the day, till the end, Newton's law finds their application in a number of activities we do.



Make a project report on coloured A4 size sheet, giving examples, showing applicability of these laws in everyday life situations. Think in reference to walking, playing, driving, etc, Also paste preferably real life relevant pictures of yours or surroundings.

**NOTE: Project report should have following:**

**Cover page having Name of the student, Class, section, roll no and topic. Acknowledgement, Phenomena with explanation and pictures, Conclusion.**

**CHEMISTRY**

❖ **REPORT: MAKE A REPORT ON THE PROPERTIES OF TRUE SOLUTION, SUSPENSION AND COLLOIDAL WITH SUITABLE EXAMPLES .**

❖ **ACTIVITY:**

**To Prepare:**

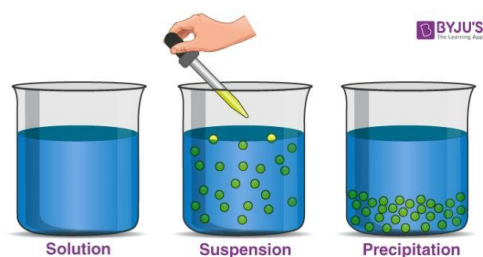
- A true solution of common salt and sugar in water.
- A suspension of soil and fine sand in water.
- A colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of:
  - Transparency
  - Filtration criterion
  - Stability

Procedure:

- **For true solution:-** Mix common salt with water in one glass and mix sugar with water in another glass.
- **For suspension:-** Mix soil with water in one glass and mix fine sand with water in another glass.
- **For colloidal solution:-** Mix starch with water in one glass and mix milk/egg albumin with water in another glass.

Now take one sample from each type of solutions and compare on the basis of

- Transparency
  - Filterability
  - Stability
- ❖ Write your observations in tabular form.



❖ YouTube link:- <https://youtu.be/ZG4X5WmnDGg>

NOTE:

- ❖ The observations of the activity and the project should be handwritten and done on a file\* (A4 size sheets) with proper acknowledgement, certificate and bibliography.
- ❖ Submit your Holiday Homework to your respective Subject Teacher by July, 2024. Your submission will carry 10 marks.

## BIOLOGY

### **ACTIVITY: TO show the process of Osmosis with Potato Slices**



*Ever cut up some apples or potato slices just to see them turn funky colors and not be as fresh as they could be? What can you do to protect these fruits and vegetables and keep this from happening?*

*What will keep potatoes (or other veggies) fresher: soaking it in regular water or saltwater?*

*Osmosis is a property of matter that deals with diffusion; a spreading out of particles from high concentration to low concentration.*

*Basically, more stuff balances out with less stuff. Like spraying a bunch of perfume in one place, notice how it travels across the room? However, instead of stuff in the air, osmosis describes the motion of water going through something. I'm going to give you the experiment, and then we'll talk about how exactly this water motion occurs.*

#### **Materials:**

*A potato, salt, water (if you have distilled water, that kind is best), a couple of drinking glasses.*

#### **Procedure :**

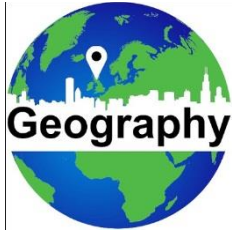
- **Fill two glasses with water**
- **In one of the glasses add 2-3 tablespoons of salt, and stir it in**
- **Slice up a potato into French fry-like pieces**
- **Make your observations on these pieces: pay attention to color, how flexible it is, smell, etc.**
- **Take a guess about how you think these slices might change by putting them into the different types of water**
- **Dunk the pieces in the water, and then let them sit overnight in it**
- **Dunk the pieces in the water, and then let them sit overnight in it**

- *Remove the pieces onto a plate and make your final observations*
- *Explanation:*
- *You will notice some immediate differences in the potato slices. The color of the salted water one is dark brown; not a nice image of how you would like your potatoes preserved! The one in the regular water looks like a nice white freshly cut piece of potato. Moving on to the flexible test, the regular water one again feels firm and crisp (try to break the piece, it snaps!). The saltwater potato is bendy and doesn't snap at all.*

**Note:**

- *\*The Activity should be done manually and conclusion/ result will be handwritten and done on a file\* (A4 size sheets)*

Subject: Social Science



Make a project report on the following topics- (Do any One)

1. Earthquake-Causes and Mitigation.
2. Flood – Causes and Mitigation.
3. Global Warming-Causes and Mitigation.



**1. Project on the various farming and non- farming activities taking place in your union Territory. Also find out about the different types of crops grown in your area during the year.**

**Note- The project should be handwritten and done on a file.**

**Do any one out of Political Science and History**

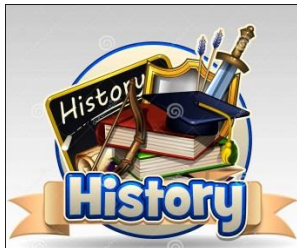


Make a project file on 'Democracy v/s Dictatorship'.

Do the case study of six different countries

**Note: Work to be done on A4 size sheet**

**OR**



1. Draw or paste symbols used by French People at the time of Revolution.
2. Write Declaration of Rights

**Note: Work to be done on A4 size sheet**

**Note -**

**1. Submit your Holiday Homework to respective Subject Teacher by 22th of July, 2024 Your submission will carry 4 marks.( 2 marks- Subject Relevance & Research, 2 marks- Handwriting).**

**2. Practice for your Homework/ Project Presentation (5-6mins) to be held during virtual class after holidays. It will carry 6 marks.**

**(2 marks- Confidence, 2 marks- Subject Clarity, 2 marks- Presentation Skills).**

**3.The schedule for presentation will be shared later.**

**4.The teacher may ask 1 or 2 questions during the presentation.**