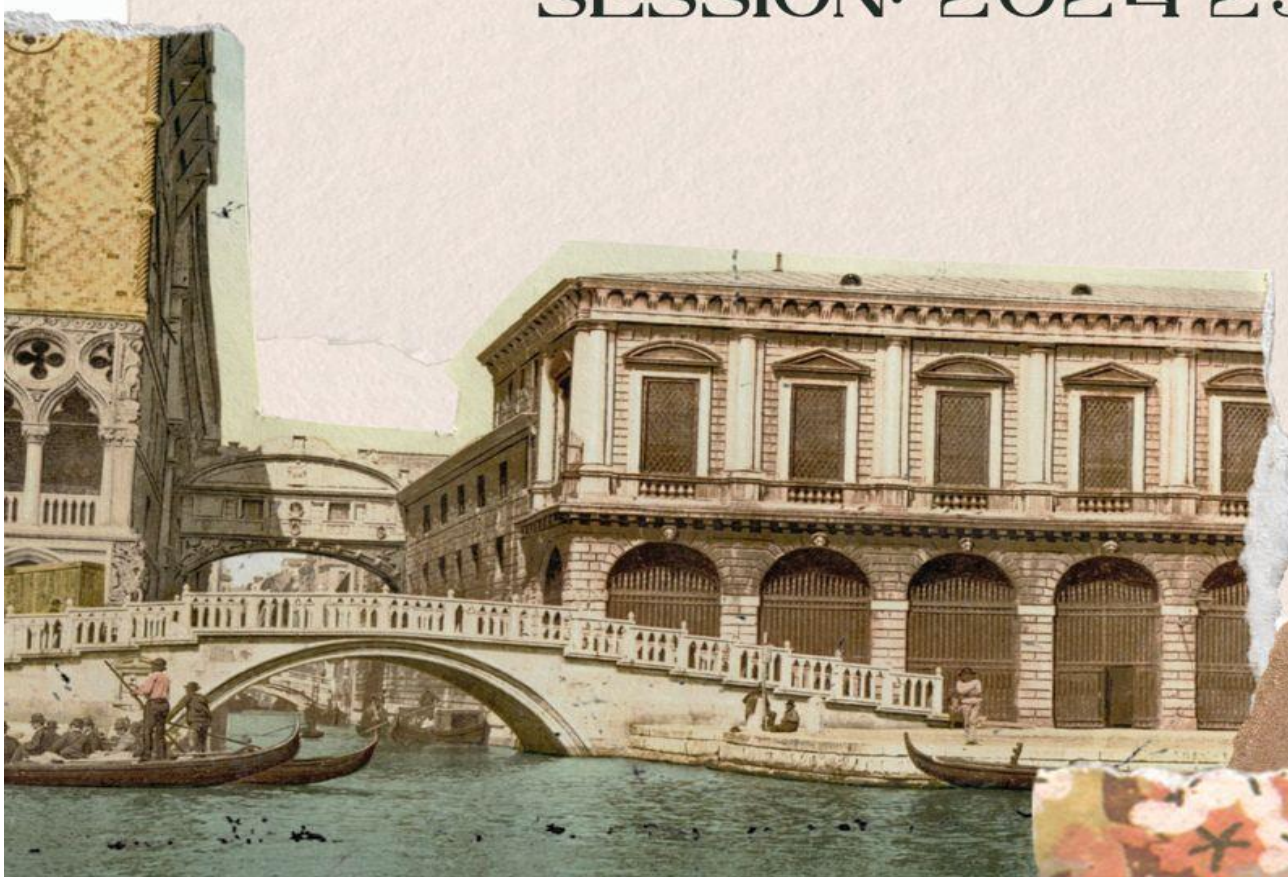




**DELHI PUBLIC SCHOOL JAMMU
HOLIDAY HOMEWORK
SESSION: 2024-25**



1. “PAINT YOUR VISION”

- **WHAT TO DO:** Craft a poster that speaks your mind.

THEME: “Love for freedom is the natural instinct of every living being.”

- ❖ **You may read Leslie Norris’ A Tiger in the Zoo for your reference.**

- **HOW TO DO:** Use your imagination to convert the poem in an artistic representation.
- **WHERE TO DO:** A3 or A4 sheets.
- ❖ The presentation should be self- explanatory.

2. “DIVE INTO POETRY”

“Freedom is never voluntarily given by the oppressor; it must be demanded by the oppressed.” – Martin Luther King Jr.

- **WHAT TO DO:** Using the above quote as a reference point, compare and contrast the themes, imagery, and tone in the poems "I Know Why the Caged Bird Sings" by Maya Angelou and "A Tiger in the Zoo" by Leslie Norris.

- **In your analysis, consider the following question:**

What might the caged bird and the tiger represent in a broader context, and how does this symbolism connect with the quote about freedom and the struggle against oppression?

- **HOW TO DO:**
- ❖ Read the poems, take notes on key themes and imagery, and create an outline for your analysis.
- ❖ Write your analysis, focusing on comparison and contrast, with examples from the poems.
- ❖ Review your work for clarity and coherence
- **WHERE TO DO:** A4 sized sheets.

1. चित्र को आधार बनाकर कोई लेख, घटना अथवा कहानी लिखिए जिसका सीधा संबंध चित्र से होना चाहिए।



2. अनुच्छेद लेखन

1) नारी तेरे रूप अनेक
संकेत बिंदु-

- नारी के विविध रूप
- शिक्षा में प्रगति
- विभिन्न पदों पर नारी
- सुरक्षा की आवश्यकता

2) पाश्चात्य सभ्यता की गिरफ्त में आते युवा
संकेत बिंदु-

- पाश्चात्य संस्कृति का अर्थ
- पाश्चात्य संस्कृति का आकर्षण
- मानवीय मूल्यों पर बुरा असर

3) संयुक्त परिवार के प्रति बदलती अवधारणा
संकेत बिंदु-

- संयुक्त परिवार के लाभ
- संयुक्त परिवार टूटने के कारण
- हानियाँ

3. पत्र लेखन-

- 1) आपको चेक बुक की आवश्यकता है। नई चेक बुक प्राप्त करने के लिए स्टेट बैंक मालवीय नगर, दिल्ली शाखा के प्रबंधक को पत्र लिखिए।
- 2) परिवहन निगम के प्रबंधक को अपनी कॉलोनी तक बस चलाने के लिए एक पत्र लिखिए।
- 3) अपनी शैक्षिक एवं अन्य उपलब्धियों का उल्लेख करते हुए अपने विद्यालय के प्रधानाचार्य को प्रार्थना-पत्र लिखिए जिसमें छात्रवृत्ति देने का उल्लेख किया गया हो।
- 4) आपके मुहल्ले की नालियों की ठीक से सफाई नहीं हो रही है। इसकी शिकायत करते हुए नगर -निगम के स्वास्थ्य अधिकारी को पत्र लिखिए।

4. व्याकरण-

- 1) समास (प्रत्येक भेद के 10-10 उदाहरण)
- 2) रचना के आधार पर वाक्य रूपांतरण (प्रत्येक भेद के 10-10 उदाहरण)

HINDI LITERATURE

कला एकीकृत परियोजना (I)

लीलाधर मंडलोई की लोककथा- ' तताँरा-वामीरो कथा' पढ़िए सारांश लिखते हुए उसका उद्देश्य व शीर्षक की सार्थकता स्पष्ट कीजिए।



कला एकीकृत परियोजना (II)

'विश्व में हिंदी का 'बढ़ता वर्चस्व' विषय पर Practical sheet पर पोस्टर निर्माण करें तथा इस विषय पर किए शोध पर आधारित संक्षिप्त लेख लिखिए।

पाठ्यक्रम (For revision)

स्पर्श - कबीर , मीरा के पद , बड़े भाई साहब , डायरी का एक पन्ना , तताँरा - वामीरो कथा
संचयन - हरिहर काका
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।
- * ततार्रा - वामीरो कथा
- * 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 सामाग्री (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 वस्तुको 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।

Solve all questions**Topic: Polynomials**

Q1. If $(x + k)$ is a factor of $2x^2 + 2kx + 5x + 10$, find k .

Q2. If α and β are the zeroes of the polynomial $p(x) = 3x^2 - 5x + 6$, find

(i) $(\alpha / \beta) + (\beta / \alpha)$ (ii) $\alpha^3 + \beta^3$

Q3. Find a polynomial whose zeros are squares of the zeroes of the polynomial $3x^2 + 6x - 9$.

Q4. If 1 is one of the zeroes of the polynomial $p(x) = 7x$

$-x^3 - 6$ find its other zeroes.

Q5. Find the quadratic polynomial, sum and product of whose zeroes are 2 and $-$

1 respectively. Q7. If the sum of the zeroes of the quadratic polynomial $kx^2 +$

$2x + 3k$ is equal to their product, find k .

Q6. Find a polynomial whose zeroes are $2, 1$ and -1 . What is its degree?

Q7. Find the polynomial whose zeroes are reciprocals of the zeroes of the polynomial $2x^2 + 3x - 6$.

Topic: Pair of Linear Equations in Two Variables

Q1. Determine the value of k for which the given system of equations has

unique solution: a) $2x - 3y = 1$; $kx + 5y = 7$ b) $4x - 5y = k$; $2x - 3y = 12$

Q2. Find the value of k , for which the system of equations has infinitely many solutions.

a) $2x - 3y = 7$; $(k+2)x - (2k+1)y = 3(2k-1)$

b) $x + (k+1)y = 5$; $(k+1)x + 9y = 8k - 1$

Q3. Find the value of k so that the following system of equations has no solution. a)

$(3k+1)x$

$+3y - 2 = 0$

; $(k^2+1)x + (k-2)y - 5 = 0$

Q4. Solve the following system of equations by any algebraic method.

a) $x + y = 3,$

$2x + 5y = 12$

c) $x - 2y - 5 = 0,$

$3x + 5y - 6 = 0$

b) $2x - 3y + 13 = 0$, $3x - 2y + 12 = 0$. d) $3x - 4y - 1 = 0$, $2x - y + 5 = 0$

Q5. Represent the following equations on the graph and determine the vertices of the triangle, so formed .

a) $2y - x = 8$, $5y - x = 14$, $y - 2x = 1$

b) $y = x$, $y = 0$, $3x + 3y = 10$

Q6. Draw the graph of $x - y + 1 = 0$ and $3x + 2y - 12 = 0$. Calculate the area of the triangle bounded by these lines and the x-axis.

Q7. Solve the system of equations $x - y = 1$, $2x + y = 8$ graphically .Shade the area bounded by these lines and x-axis. Also find its area.

Q8. The age of father is twice the sum of ages of his two children. Ten years hence, the age of father will be three-quarter of the sum of the ages of his children then. Find the present age of father.

Q9 A man has belts and handkerchiefs which are together 40 in number. If he had 5 more handkerchiefs and 5 less belts, the number of handkerchiefs becomes four times the number of belts. Find the original number of each.

Q10. The numerator of a fraction is 4 less than its denominator. If the numerator is decreased by 2 and the denominator is increased by 1, the denominator becomes 8 times its numerator. Find the fraction.

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

Roll no. – 1 to 15 – Polynomials

Roll no. – 16 to 25 – Linear Equation in two variables

Roll no. – 26 to 40 – Introductions to trigonometry Geometry

Where to do : In A3 size sheet

Parameters :

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

2. **NCERT** : Do all examples of Ch 2,3 & 8

Where to do: In practice notebook

Parameters:

- a. Content
- b. Accuracy

NOTE:- Dear students

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

Activity 1

System of linear equations

Materials required

3 graph papers,
ruler,
pencil.

Objective

To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.

Pre-requisite knowledge

Plotting of points on a graph paper

Procedure

1. Take the first pair of linear equations in two variables of the form

$$a_1x + b_1y + c_1 = 0$$

$$a_2x + b_2y + c_2 = 0$$

e.g. $2x - 3y = 3$

$$3x - 4y = 5$$

2. Obtain a table of ordered pairs (x, y) , which satisfy the given equation. Find at least three such pairs for each equation.

e.g. For $2x - 3y = 3$

x	0	3	6
y	-1	1	3

For $3x - 4y = 5$

x	-1	-5	7
y	-2	-5	4

3. Plot the graphs for the two equations on the graph paper as shown in Fig 1(a).

4. Perform the activity given below

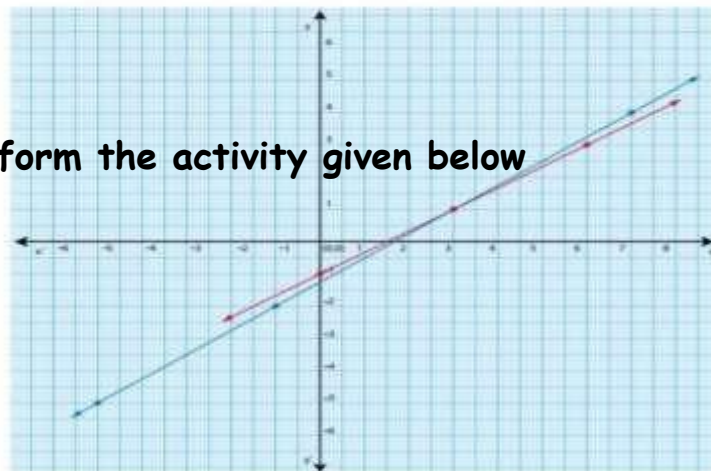
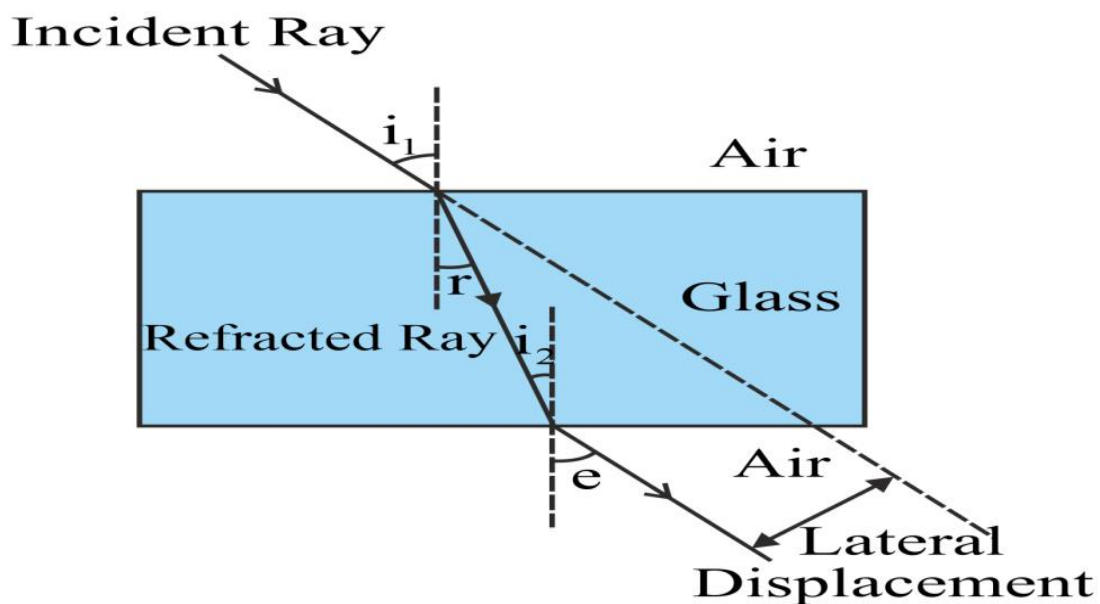


Fig 1(a)

PHYSICS

Perform an activity of Refraction of light through a rectangular glass slab and prepare a project report.



The project report should include;

1. Observations of light ray passing through the slab.
2. Measure the angle of incidence and angle of refraction.
3. Explain how lateral displacement varies with the change in angle of incidence?
4. Observe what happens when incident light falls normal to the interface of the slab.

Link for the above activity: <https://you.be/t7kFpEvLtjM>

Note: *The activity should be done manually and the project should be handwritten and done on a file with a proper acknowledgement, certificate and bibliography.*

BIOLOGY

****Title: The Effect of Light on Plant Growth****

****Objective:**** To observe how different amounts of light affect the growth of plants.



****Materials Needed:****

- 3 small plants (e.g., bean plants or small flowers)
- 3 pots
- Soil
- Water
- Light source (e.g., a lamp)
- Timer or clock

****Procedure:****

1. Plant one seedling in each pot filled with soil.
2. Place the pots in a location where they will receive different amounts of light. For example, one pot can be placed in a sunny window, one under a lamp for 8-12 hours a day, and one in a closet or cupboard with no light.
3. Water the plants regularly, making sure they all receive the same amount of water.
4. Observe and record the growth of each plant every day for 2-3 weeks. Measure the height of each plant and note any changes in leaf color or overall health.
5. After the observation period, compare the growth of the plants under different light conditions. Discuss your findings and draw conclusions about the effects of light on plant growth.

****Note:**** Make sure to follow safety guidelines and proper plant care procedures throughout the experiment.

Students will observe the plants daily.

Click the pictures and paste it on A4 size sheet and write a report on it.

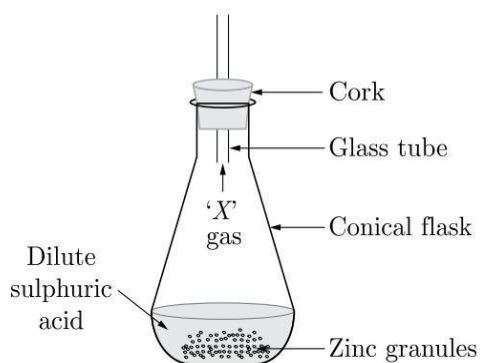
Make the observation table on A4 size sheet.

Keep all the things in a transparent file.

CHEMISTRY

- ❖ **A - Prepare a detailed project report on Types of Chemical reactions .**
- B - Read chapters 1st & 2nd and prepare 10 Questions from each chapter of your own and answer those questions on your chemistry notebook.**
- ❖ **ACTIVITY:**

25. Observe the given figure and answer the questions that follow:



- (i) Identify the gas *X*.
- (ii) Write the chemical reaction involved.
- (iii) Which type of chemical reaction is taking place?
- (iv) is it an exothermic reaction or an endothermic reaction?

or

What are strong and weak acids? In the following list of acids, separate strong acids from weak acids. Hydrochloric acid, citric acid, acetic acid, nitric acid, formic acid, sulphuric acid.

NOTE:

- ❖ **The observations of the activity and the project report 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.**



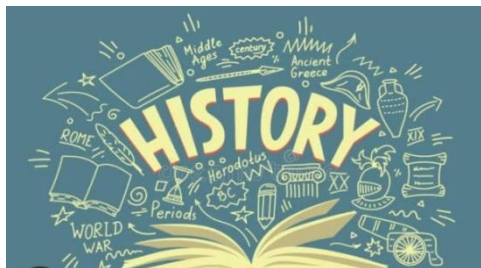
1. Project on Consumer Rights and Consumer Movement in India.

The project should include following points

- i) Need for protecting the consumers
 - ii) Consumer Movement
 - iii) Consumer Protection Act, 1986
 - iv) Consumer Rights.
2. Write a case history of a consumer who has fought a consumer right case and was given Justice by the Consumer Court.

For reference you can use your Economics Textbook (chapter-5 Consumer Rights)

Note: The project should be handwritten and done on a file with proper acknowledgement, certificate and bibliography.



Topic: Make a project on 'How a sense of collective belonging was built up in India. A comparison with other nations, e.g., France, Vietnam etc'.

Objectives : To create awareness of factors that develop a sense of collective belonging among people of different communities, regions or language groups.

Skills developed : Critical thinking, empathy, communicative skills, planning, problem solving.

Note: The project should be handwritten and done on a file with proper acknowledgement, certificate and bibliography.

Note -

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

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

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