DAV PUBLIC SCHOOL,KOTA Class - X HOLIDAY HOME- WORK

-

SUBJECT	HOME-WORK
ENGLISH	
	Narrative Writing:
	Write a short story exploring a theme from a textbook chapter,
	using specific literary devices like metaphor, simile, or
	inagery.
	Visual Representation:
	Create a poster, a comic strip, or a presentation illustrating the
	key events and themes of a play or a novel.
	Multimedia Presentation:
	Research a literary work its author, and its historical context
	and present your findings in a slideshow or a video.
	Creative Composition:
	Write a poem or a script based on a specific literary device,
	such as personification or alliteration.
	Character Analysis:
	Develop a detailed character analysis of a main character from
	a text, exploring their motivations, personality, and
	relationship with other characters.
	Theme Exploration:
	Analyze the main theme or message of a literary work and
	connect it to real-world issues or social contexts.
	Compare and Contrast:
	Compare and contrast two characters, two literary works, or

	two literary devices, highlighting their similarities and differences.
	Note - Do anyone from the above topic.
	Value-Based Questions: Analyze the values or moral lessons conveyed in a text and discuss how they resonate with your own understanding of the world.
HINDI	 साहित्य सृजनात्मकता लघुकथा लेखन साखियाँ (कबीर) में से किसी एक दोहे की पंक्तियों पर आधारित एक लघु कथा बनाएं लिखे। डायरी लेखन ग्रीष्मकालीन अवकाश में आपने कौन से दिन को सर्वाधिक सदुपयोग बनाते हुए व्यतीत किया अपने अनुभव को एक डायरी में समेटिए। वाकरण और रचनात्मक लेखन अपठित गद्यांश अभ्यास कोई भी दैनिक समाचार पत्र या पत्रिका से एक लेख पढ़ें, और उस पर आधारित पाँच प्रश्न बनाकर उनके उत्तर दें। मुहावरे और लोकोक्तियाँ 10 प्रमुख मुहावरों का चित्र के माध्यम से अर्थ स्पष्ट करें (उदाहरण आसमान से गिरे, खजूर में अटके)। रचनात्मक परियोजना कार्य हिंदी समाचार पत्र बनाएं ातीन शीट पर एक हस्तलिखित हिंदी समाचार पत्र तैयार करें जिसमें निम्नलिखित हों एक कविता एक कहानी समाचार (स्थानीय या काल्पनिक) कोई प्रेरणादायक विचार एक पहेली या चुटकुला एक विज्ञापन (स्वनिर्मित) पठन कार्य गर्मियों में टोपी शुक्ला (डॉ राही मासूम रजा) या मुझे चाँद चाहिए (सुरेन्द्र वर्मा) में से कोई एक पुस्तक पढ़ें और उस पर 200 शब्दों की समीक्षा लिखें। महत्वपूर्ण निर्देश समी कार्य स्वच्छ और सुंदर लेखन में करें। रचनात्मकता के लिए रंगों व चित्रों का प्रयोग किया जा सकता है। कार्य । शीट्स पर या फाइल में प्रस्तुत करें।

MATHEMATICS	Noto: All the work should be done in Mathematics	s practical file
	Lab Manual Activities.	s practical me.
	1 .Activity 1:.Pair of linear equations in two variables	
	2 . Activity 2: Centroid of a triangle	
	3. Activity 13: Area of a circle	
	4. Activity 16: Volume of a right circular cylinder.	
	5 Activity 18: Volume of a cone.	
	Case Study Based Questions.	
	<u>Case study 1</u> A seminar is being conducted by an Educational orga where the participants will be educators of different su number of participants in Hindi, English and Mathema and 108 respectively.	anization, subjects. The atics are 60, 84
	1. In each room the same number of participants are	to be seated
	and all of them being in the same subject, hence max	ximum number
	participants that can accommodated in each room are	e
	a) 14 b) 12 c) 16 d) 18	
	2. What is the minimum number of rooms required du	uring the event?
	a) 11 b) 31 c) 41 d) 2	21
	Q.3 Find the LCM of 60, 84 and 108. Q.4. Find the product of HCF and LCM of 60, 84 and <u>Case Study 2</u> The below picture are few natural examples of parabolic which is represented by a quadratic polynomial. A para an arch in the shape of a parabola. In structures, their represents an efficient method of load, and so can be bridges and in architecture in a variety of forms.	l 108. polic shape arabolic arch is ir curve e found in







Name of the city	Distance travelled (Km)	Amount paid (Rs.)
City A	10	75
	15	110
City B	8	91
	14	145

Situation 1: In city A, for a journey of 10 km, the charge paid is Rs 75 and for a journey of 15 km, the charge paid is Rs 110.

Situation 2: In a city B, for a journey of 8km, the charge paid is Rs91 and for a journey of 14km, the charge paid is Rs 145.

Refer situation 1

1. If the fixed charges of auto rickshaw be Rs x and the running

charges be Rs y km/hr, write the pair of linear equations representing this situation .

2 .If A person travels a distance of 50km. Find the amount he has to pay .

Refer situation 2

3. What will a person have to pay for travelling a distance of 30km?

4. The graph of lines representing the conditions are: (situation 2)



Case Study 5

Dipesh bought 3 notebooks and 2 pens for Rs. 80. His friend Ramesh said that price of each notebook could be Rs. 25. Then three notebooks would cost Rs.75, the two pens would cost Rs. 5 and each pen could be for Rs. 2.50. Another friend Amar felt that Rs. 2.50 for one pen was too little. It should be at least Rs. 16. Then the price of each notebook would also be Rs.16. Lokesh also bought the same types of notebooks and pens as Dipesh. He paid 110 for 4 notebooks and 3 Pens.

(i) Let the cost of one notebook be x and that of pen be y . Which of the following set describe the given problem ?

(a) 2x + 3y = 80 and 3x + 4y = 110

	 (b) 3x + 2y = 80 and 4x + 3y = 110 (c) 2x + 3y = 80 and 4x + 3y = 110 (d) 3x + 2y = 80 and 3x + 4y = 110 (ii) Whether the estimation of Ramesh and Amar is applicable for Lokesh? (a) Ramesh's estimation is wrong but Amar's estimation is correct. (b) Ramesh's estimation is correct but Amar's estimation is wrong. (c) Both estimation are correct. (d) Ramesh's estimation is wrong but Amar's estimation is also wrong. (iii) What is the exact cost of the notebook? (iv) What is the exact cost of the pen? (v) What is the exact cost of the pen? (v) What is the total cost if they will purchase the same type of 15 notebooks and 12 pens. <u>Case Study 6:</u> To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library. There are two sectionssection A and section B of grade X. There are 32 students in section A and 36 students insection B. 1. What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B? 2. If the product of two positive integers is equal to the product of their HCF and LCM is true then, Find the HCF of (32, 36). 3. write the prime factors of 336 by factor tree method
SCIENCE	 PHYSICS Q.1 Deepak is driving a car. He is not able to see vehicles behind him. He adjusted the rear view mirror to see the vehicles. (a) Which type of mirror is used? (b) Give a reason for this choice. (c)Justify your answer with the diagram. Q.2 Raha went to a beauty parlour. She saw a big size mirror . She saw her enlarged image. A particular type mirror is used here (a) Which type of mirror is used? (b) Give a reason for this choice (c)Justify your answer with the diagram.
	Q.3 Raj visited a museum in summer vacation.There was a room with different types of mirror on the walls. He saw very funny images (a)

magnified (b) same size (c) Diminished (a) Name the types of mirrors used in the museum. (b) If the focal length is +20 cm. For which mirror will it be used and why? (c) If radius of curvature is -30 cm. For which mirror will it be used and why?
Q.4 An object 2 cm high is placed at a distance of 16 cm from a concave mirror, which produces 3 cm high inverted image. What is the focal length of the mirror? Also find the position of image.
Q.5 An object is placed at distance of 25 cm from a spherical mirror and its image is formed behind the mirror at distance of 5 cm. Find focal length? Is it concave or convex mirror? Q6. An object is placed in front of a convex mirror of radius of curvature 40 cm at a distance of 10 cm. Find the position, nature, and magnification of mirror.
CHEMISTRY 1. Electrolyte Challange : Orange juice v/s Sports Drink-
Compare the amount of electrolytes in a Sports drink with those in Orange juice and find out which has more electrolytes to replenish the ones you loose as you workout or play Sports.
Or
2. Bring on Heat ! Investigating Exothermic Reaction Rates-
Have you ever pulled a muscle or just been sore after a long day of work?
Hot showers are great but more convenient heat have been used by many
Study the heat generating reactions of these heat packs?
Or
 Do Oranges Lose or Gain Vitamin C after being picked? Are oranges highest in Vitamin C when they are fresh from the trees? Does the amount of Vitamin C in Oranges change over time, after it have been picked. Investigate and find the answers to these questions.
Or
4. Excess Volume - Investigate the "Shrinking Liquid Effect" -
Cooking, washing and many industrial processes involve the mixing of liquids. How do liquids behave when they are mixed and how the mixing volumes change when you make solutions of different

	ratio of the components (solvents & solutes)
	Or
	5. Remove Silver Tarnish by Homemade method-
	Do you have tarnished silver jewelry at home ? Can you remove silver tarnish at home with another metal. Investigate the various methods to make your jewelry shine again .
	BIOLOGY
	Q1. (Notebook Work)
	Instructions: Answer the following questions in your biology notebook. Write neatly and support answers with diagrams wherever applicable.
	Life Processes
	1.Define life processes. Explain with examples.
	2.Differentiate between autotrophic and heterotrophic nutrition.
	3.Draw and label the human digestive system.
	Control and Coordination
	4.Explain the structure and function of a neuron with a labeled diagram.
	5.Describe the mechanism of reflex action.
	6. Prepare a quiz with 10 multiple choice questions (MCQs) based on any one chapter from Biology.
SOCIAL SCIENCE	1. Sustainable development
	Make a project on the significance of the issue sustainable development taking examples like groundwater and mineral reserves.

2. Social issue
Take any of the social issues for example gender inequality at workplace, cruelty with animals, increasing use of pesticides in food etc. and prepare a detailed report. Present in a project file.
3. Consumer protection
"Consumers are required to be protected especially when they are less in number, scattered and purchases in less quantity."
Make a project stating the ways how they are exploited at the marketplace? What are the rights available to them under Consumer Protection Act 2020 and redressal process available.
Note:
Students are required to make a project on any one topic.