

SUMMER VACATION



JYANTI PRASAD DAV PUBLIC SCHOOL
GARHI JHANJHARA ROAD, GANOUR
(UNDER THE DIRECT CONTROL OF DAV CMC, NEW DELHI)



HOLIDAYS' HOMEWORK

SESSION 2024-25

CLASS X

FOR ANY QUERY CONTACT: **0130-2450641**

A fully English medium and the best school in area for
all round development of students.

TOGETHER WE CAN

FROM JUNE 01, 2024 TO JUNE 30, 2024

Dear parents

We wish you a very happy and fruitful time with your children. Summer vacation is the most awaited time for the students as they want to play, enjoy and relish with their friends, neighbours and relatives. This is a time for them to stay away from the mundane schedule of daily life. They want to enjoy it in leaps and bounds. But we request you to keep their energy channelised. You should be a part of their enjoyment but time and again a check is required. Now it's your responsibility to make them stay connected with their studies along with fun and frolic & encourage them to do their homework in a neat and tidy manner.

Here are some of the suggested activities that you can do as a family:

- 1. Prepare a well-being plan for self.*
- 2. Stick to routines or starting new ones.*
- 3. Get up and go to sleep at regular times.*
- 4. Help them explore new hobbies and interest.*
- 5. Do karaoke, read, solve puzzles, play board games, etc.*
- 6. Keep a gratitude journal. Writing down three things you are grateful for every day. Congratulate yourself and others on having a "MEGA DAY".*
- 7. Take out time for Reading, Music, Dance, Singing, and Laughing.*
- 8. Set Challenges- Encourage each other to take up new activities and complete them.*
- 9. Be Creative with Space- Find a corner in the house and allow yourself and your children to decorate it.*
- 10. Involve your children in household activities also.*
- 11 Learn foreign languages through online courses available.*
- 12. Take them for outing to place of their interest & let them explore the world.*
- 13. Communicate with your children and let them know you fully.*

As parents you are requested to keep a watchful eye on your children and stop them from engaging in :

- 1. Excessive use of mobile phones.*
- 2. Playing online games*
- 3. Spending a lot of time alone away from family members.*

Be Safe



We're doing our homework to make sure we're prepared. - Gary Gait

Thomas A. Edison says "Genius is one percent inspiration and ninety-nine percent perspiration. As a result, a genius is often a talented person who has simply done all of his homework."

General Instructions:

- 1. Do your Homework in a separate 3 in 1 notebook (classes 1 and 2) & cover it properly.*
- 2. Do your Homework in separate 10 rs/- notebooks subject wise (classes 3 to 12) & cover it properly.*
- 3. Mention your details on your holiday's homework.*
- 4. Start your homework from very beginning of holidays to avoid stress and ensure high quality work as it has been assigned.*
- 5. Dedicate a specific time each day on your homework.*
- 6. Choose a dedicated area that is free from distraction to focus on your work.*
- 7. Present your homework in a neat and logical manner.*
- 8. Use clear handwriting, proper formatting and consistent spacing.*

Note:

- The best holiday homework of each class will be awarded.*
- It is a part of internal assessment for the final examination.*

WARM REGARDS

PRINCIPAL



MAKE PPTS

Directions:

Decorate the PPT using your creativity.

Try to be original, but can pick out some ideas from the internet.

You can use different calligraphic fonts.

Paste pictures, use colour to make your work impressive.

Your imagination and creativity will be appreciated.

Various assignments to be included in PPTS are as follows:

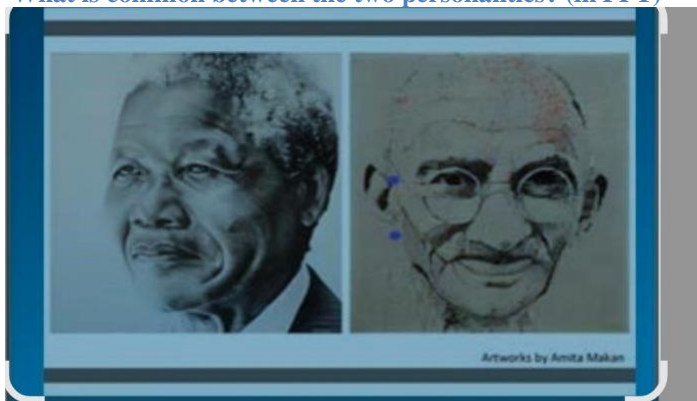
Make a slogan in PPT backing the efforts to save the fast disappearing TIGERS. You may paste pictures to add value to your Slogan.

OR

Who is this man with Gandhi ji in the picture below?

What do you know about him. Paste pictures.

What is common between the two personalities? (in PPT)



News of the Land

It's Summer! Time for some fun and creative stuff!

A lot is happening around the world. And how do we learn about it all? Well, one of the popular mediums is Newspapers. The Newspapers began circulating in the 17th century. The first real newspaper in England was printed in 1665. The Yomiuri Shimbun, a Japanese Newspaper, is the most circulated newspaper in the world. The Yomiuri Shimbun is published twice daily and printed in different local editions. India's largest-circulated daily newspaper, the Dainik Bhaskar, is the world's fourth most circulated newspaper.

Let's make an E - Newspaper

Instructions:

Use any of your own ideas. How to make it A lot is happening around the world. The corona virus pandemic etc. You can start by dividing your PPT into various sections such: National news, local news, sports, weather, advertisements. Use your own ideas.

Once, you have collected all the news you would want to report. It is time to put it together. You can then write a small report about movies, birthday or even puzzles.

Next, collect all the articles or pictures have reported. Write your name on top of the PPT. After all, you are the Reporter!

LETTER WRITING

(1) You are Ravi/Ravina. You bought a pair of shoes from M/S Shoe Line, Sadar Market, Rakabganj.

Lucknow, On unpacking them you found to your surprise, that both the shoes are meant for your right foot. Write a letter

of complaint to the manager of M/S Shoe Line, asking for replacement at their cost. (word limit 100-200 words)

2) You are Sunita/Suraj of 4 Grant Road, Dadar. You need accommodation for yourself. Write a letter to the Manager of paying guest service, 15, Aditya Complex, Laxmi Nager, Delhi, enquiring about the details such as type of accommodation, monthly charges, and facilities provided etc,

Art integrated work

1. Take a Money Order form and fill all the required columns
2. Write at least five examples of each component of language : Homographs and Homonyms.
3. Write imaginary conversation between you and your pet dog.
4. Find out the names of the great freedom fighters of Indian history and discuss their achievements.
5. Write a poem expressing your gratitude towards the great persons of Haryana who played a vital role in developing Haryana and bringing name and fame to Haryana.
6. Make at least four entries in your personal diary expressing your feelings on what did you learn in the last year of lockdown due to Covid 19
7. Write ten idiomatic expressions using the words eye, voice, heart, stone, black, red and sky.

Hindi

कार्य प्रपत्र

प्रश्न:- 1 'बड़े भाई साहब' पाठ में आप बड़े भाई तथा छोटे भाई में से किस नायक मानते हैं और क्यों?

प्रश्न:- 2 "वे स्वभाव से अध्ययनशील थे" पंक्ति में निहित व्यंग्य पर प्रकाश

डालिए।

प्रश्न:- 3 26 जनवरी 1931 के दिन स्त्रियों की भूमिका स्पष्ट कीजिए।

प्रश्न:- 4 - 'डायरी का एक पन्ना' पाठ में क्या महत्वपूर्ण संदेश दिया गया है?

प्रश्न:- 5 कस्तूरी के विषय में जानकारी प्राप्त कीजिए और लिखिए ।

प्रश्न:- 6 कबीर की साखियों द्वारा कौन-कौन सी नीणगगपरख बातें सीखने को मिलती हैं अपने शब्दों में बताइए।

प्रश्न:- 7 'लोकतांत्रिक चुनाव' विषय पर आधारित अनुच्छेद लिखिए।

प्रश्न:- 8 दैनिक जागरण समाचार पत्र के संपादक के नाम मिलावटी दूध की बिक्री के संबंध में लगभग 80-100 शब्दों में पत्र लिखिए।

प्रश्न:- 9 बाढ़-पीड़ितों की मदद हेतु एक निजी संस्था की ओर से 25-30 शब्दों में विज्ञापन लिखिए।

प्रश्न:- 10 आपके विद्यालय में वन-महोत्सव के अवसर पर वृक्षारोपण कार्यक्रम का आयोजन किया जाना है इस संबंध में 30-40 शब्दों में सूचना लिखिए।

परियोजना कार्य

किन्हीं दो भक्ति कालीन कवियों के जीवन पर आधारित परियोजना तैयार कीजिए। (सेक्शन ए के लिए)

स्वतंत्रता आंदोलन में किन्हीं दो महिलाओं के योगदान पर आधारित परियोजना तैयार कीजिए। (सेक्शन बी के लिए)

अपने नाम से एक व्याकरण पुस्तिका तैयार कीजिए।

व्याकरण विषय:- * अनुस्वार अनुनासिक एवं

नुक्ता चिन्ह, तत्सम-तद्भव शब्द, पर्यायवाची

शब्द, विलोम शब्द, संधि-समास एवं मुहावरे। (सेक्शन सी के लिए)

MATHEMATICS

CHAPTER-1

1. Prove that $\sqrt{P} + \sqrt{Q}$ are irrational numbers.
2. Two numbers are in ratio of 15:11. If their H.C.F is 13. Find the numbers?
3. Find the greatest of 6 digits exactly divisible by 15, 24, and 36.
4. Find the largest possible positive integers that divide, 125, 162, and 259 leaving remainders 5, 6, 7 respectively.
5. The dimension of a room is 8.50 m, 6.25m and 4.75 m. Find the length of the largest measuring rod which can measure it.

CHAPTER-2

1. One of the zero of $p(x) = (k^2 + 4)x^2 + 16x + 4k$ is reciprocal of the other. Find the value of k ?
2. If α and β are the zeroes of the quadratic polynomial $x^2 - x - 4$. Find the value of $\alpha + \beta - \alpha\beta$
3. If α and β are the zeroes of the quadratic polynomial $x^2 + 2x - 8$. Find $\alpha^4 + \beta^4$

CHAPTER-3

1. The income of two persons is in ratio 8:7 and ratio of their expenditure is 19:16. If each saves 1250 Rs. Find their incomes.
2. A person invested a certain amount at the rate of 12% simple interest and some other amount at the rate of 10% simple interest. If he received yearly interest of Rs. 130. But he had interchanged the amount invested; he would have received Rs. 4 more as interest. Find the amounts.
3. X takes 3 hours more than Y to walk 30 km. but if X doubles his pace, he is ahead of Y by 1 . Find the speed of X and Y.
4. Draw the graph of the equation $x + 2y + 4 = 0$ and $x + 2y - 3 = 0$.

Solve for x and Y :

$$a(x + y) + b(x - y) = a^2 - ab + b^2$$

$$a(x + y) - b(x - y) = a^2 + ab + b^2$$

CHAPTER-4

1. Solve for X : $4x^2 - 4a^2x + (a^4 - b^4) = 0$
2. Solve for X: $abx^2 + (b^2 - ac)x - bc = 0$
3. Find the root of the quadratic equation : $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$

Note:

- Activity: 1. Prepare an activity on the sum of nth term of an AP. In math's lab manual by paper cutting and pasting.
2. Prepare a mind map on chapter linear equation in two variables.

1.All students have to compulsory DO any One social science project on the following topics:

Disaster Management: - the sub topics are given below 🖱

- Introduction
- What is a disaster?
- Types of Disasters
- * Preparedness

2.Disaster management cycle (Pre- disaster, disaster occurrence & post disaster)

Heritage India: - (Take up a case study and make your project for eg: History of Indian Parliament house, Rajpath to Kartavya Path)

General Instructions: -

The Project must be handwritten, done on separate loose sheets neatly.

The file should contain the following: -

Name, class and section of the student on the cover.

The file should have one page each for:

Acknowledgement

Preface

Main content

Bibliography

ART INTEGRATED PROJECT

1.Prepare Scrap book on the different Economic activities performed by the peoples of Lakshadweep islands.

Activities

2.Student fill 3 world map (related to first world war (1914-1918), second world war (1939-1945) & Europe continent.

**3.Students fill India's political map (all states and capitals)
(All Union territories of India)**

4.Physical map (agriculture, Indian soils & Dam)

Make a project file about National Park Wild life and Bird sanctuary

Revise these chapter which are given below: -

(Geography) Resources and Development

Political Science: - Ch.1 Power Sharing

Ch.2 Federalism

Economics: - Ch. 1 Development

SCIENCE

Solve the numerical in separate note book.

NUMERICALS BASED ON MIRROR FORMULA

1. The focal length of a convex mirror is 15 cm. Find its radius of curvature.
2. An object 4 cm tall is placed on the principal axis of a concave mirror of focal length 20 cm at a distance 30 cm from it. Find the position, nature and size of the image.
3. A concave mirror produces a real image of size 3 times that of the object at a distance of 30 cm from pole of the mirror. Find the position of the object.
4. How far should an object be from the pole of a concave mirror of focal length 20 cm to form a real image whose size is $\frac{1}{5}$ th of the size of the object.
5. Where should an object be placed in front of concave mirror of focal length 20 cm so as to obtain real image two times magnified?

BASED ON REFRACTIVE INDEX

1. A ray of light travelling in air strikes a glass slab at an angle of 30° . Calculate the angle of refraction if refractive index of glass is 1.5.
2. A ray of light travelling in air strikes the water surface at an angle of 45° . Calculate the refractive index of water if angle of refraction is 30° .
3. The velocity of light in air is 3×10^8 m/s and velocity of light in glass slab is 2×10^8 m/s. Find the refractive index of glass.
4. Light enters from air into diamond which has a refractive index of 2.42. Calculate the speed of light in diamond. The speed of light in air is 3.0×10^8 m/s.
5. Light enters from air into water which has a refractive index of 1.33. Calculate the speed of light in water. The speed of light in air is 3.0×10^8 m/s.

NUMERICAL BASED ON LENS FORMULA

1. A needle 10 cm high is placed at 40 cm from a convex lens of focal length 15 cm. Find position, nature and size of image. Also draw ray diagram.
2. A 5 cm high object is placed at a distance of 10 cm from a convex lens of focal length 15 cm. By drawing a ray diagram, find position, nature and size of image.

3. A needle 4 cm high is placed in front of a lens. Image of the needle is real, inverted and 6 cm high, when the distance between the needle and its image is 20 cm. Find the focal length of lens and also write the type of this lens.
4. A convex lens of focal length 25 cm is placed in contact with a concave lens of focal length 20 cm. Find the focal length of the combination of lenses (ii) power of the combination. What is the nature of the combination ?
5. A 20 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 20 cm. The distance of the object from the lens is 15 cm. Find the position, nature and size of the image formed.
6. An object 3.0 cm high is placed perpendicular to the principal axis of a concave lens of focal length 7.5 cm. The image is formed at a distance of 5.0 cm from the lens. Calculate (i) distance at which object is placed, and (ii) size and nature of image formed.
7. The refractive index of dense flint glass is 1.65 and for alcohol it is 1.36, with respect to air. What is the refractive index of dense flint glass with respect to alcohol?
8. An object of height 5 cm is placed perpendicular to the principal axis of a concave lens of focal length 10 cm. If the distance of the object from the optical centre of the lens is 20 cm, determine the position, nature and size of the image formed using the lens formed.
9. (a) Water has refractive index 1.33 and alcohol has refractive index 1.36. Which of the two mediums is optically denser? Give reason for your answer. Draw a ray diagram to show the path of a ray of light passing obliquely from water to alcohol.
- (b) The absolute refractive index of diamond is 2.42 and the absolute refractive index of glass is 1.50. Find the refractive index of diamond with respect to glass.
10. The image obtained with a convex lens is erect and its length is 4 times the length of the object. If the focal length of the lens is 20 cm, calculate the object and image distances.
11. A needle placed 45 cm from a lens forms an image on the screen placed 90 cm on the other side of the lens. Identify the type of the lens and

determine its focal length. What is the size of the image if the size of needle is 5 cm ?

12. A concave lens has a focal length of 50 cm. Calculate its power.

13. The image of a needle placed 10 cm from a lens is formed on a wall 20 cm on the other side of the lens Find focal length of the lens and size of image formed, if the size of object needle is 2.5 cm.

14. An object is placed at a distance of 30 cm from a concave lens of focal length 15 cm. Find the nature and position of the image.

15. Write the uses of concave mirror and convex lens .

B. Draw ray diagram for mirrors and lens.

C. Make a concept map on the chapter Light -Reflection and Refraction .

CHEMISTRY

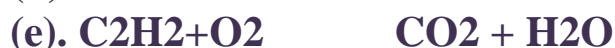
1. Make a chart on types of chemical reactions .

2. Make a Glossary of Chemistry including formulae, laws, inventors, discoverers definitions or key terms on each alphabet (A to Z) on A4-size sheets

3. Solve the assignment in separate thin note book.

CHEMICAL REACTIONS AND EQUATIONS

1. Balance the following chemical equations:



2. ANSWER THE FOLLOWING QUESTIONS:

1. A compound 'X' is a colourless and odourless liquid having pH-7. Its acidified solution. undergoes decomposition in presence of electricity to produce gases Y and 'Z' The volume of Y is double than Z. Y is highly

combustible whereas Z is supporter of combustion .Identify X, Y & Z and write the chemical reactions involved. Name the process.

2. An aqueous solution of metal nitrate 'P' reacts with sodium bromide solution to form yellow precipitates of compound "Q" which is used in photography. 'Q' on exposure to sunlight undergoes decomposition reaction to form metal present in 'P' along with reddish brown gas. Identify 'P' & 'Q' Write the chemical reactions involved & type of chemical reaction.

3. Bhawana took a pale green solid substance 'A' in a test tube and heated it over the flame of a burner. A brown colored residue 'B' was formed along with evolution of two gases with the smell of burning sulphur. Identify 'A' & 'B'. Write the chemical reaction involved and also the type of reaction.

4. A student took 5 g of a solid white substance 'X' in a glass beaker & poured water over it slowly. He observed bubbles along with hissing noise. The beaker becomes quite hot. Identify "X". Write the reaction involved. What type of reaction is it?

5. A reddish brown vessel developed a green colored solid 'X' when left open in the air for a long time. Name the process. When reacted with dil H₂SO₄ the vessel forms a blue colored solution along with brisk effervescence because of a colourless & odourless gas 'Z'. 'X' decomposes to form black colored oxide 'Y' of a reddish brown metal along with gas 'Z'. Identify 'X', "Y". & Z'.

6. A student working in the laboratory prepared an aqueous solution of silver nitrate and kept it in a glass beaker overnight. Next morning, beaker has developed black turbidity

(1) Why did the solution develop black turbidity?

(ii) In your opinion, what precaution he should have taken .

7.. Sonia purchased a packet of potato chips from the shop. She opened the packet and ate some of the chips and left the packet as such in one corner of her study room. After a gap of about two weeks, she saw the packet and wanted to do so munching again. At that time, her elder sister Pallavi, a science student of class eleven was present in her room. She found that a foul smell was coming out from the packet. She immediately threw it in the dustbin and did not allow her sister to eat the chips.

(i) Why did potato chips develop foul smell ? (ii) What was the cause of the spoilage of the chips? (iii) What is the nature of the chemical reaction involved in

it?
(iv) Why donot sealed packets develop foul smell even if kept for months?

(v) What values are displaced by Pallavi ?

BIOLOGY:

Name the organisms who –

- (a). live on host body and get nutrition from them.
- (b). feed on dead and decaying matter

2. Explain Light & Dark Reaction on the basis of:

Site of occurrence in chloroplast

What happens during this reaction?

Write balanced reaction of photosynthesis process.

Draw a neat and labelled diagram of the followings-

Open stomata (b) Cross section of a leaf

PRACTICAL

1. Preparing a temporary mount of a leaf peel to show stomata.
2. Experimentally show that carbon dioxide is given out during respiration.
3. Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.
4. Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

Information Technology

Learn and Complete all that has been taught till now.

UNIT – IV Web Applications and Security

- Chapter 15. Working with Accessibility Options
- Chapter 16. Networking Fundamentals
- Chapter 17. Introduction to Instant Messaging
- Chapter 18. Chatting using Google Chat
- Chapter 19. Creating and Publishing Blogs
- Chapter 20. Using offline Blog Editors
- Chapter 21. Online Transactions

UNIT – I Digital Documentation (Advanced)

Chapter 1. Applying Styles in a Document

Chapter 2. Adding Graphics in a Document

Chapter 3. Working with Templates

Find out any 150 one word question answers/ MCQ from these chapters and write in your Fair notebook.

Activity : Check the name of the Antivirus software installed in your computer/Laptop.

Scan the drive to Check for Virus. Write a note on your IT Fair notebook.

Project Work from DIGITAL DOCUMENTATION (ADVANCED)

Apply styles in the document, Components of Open Office Writer, Edit the document (Checking Spelling and Grammar, Changing Text case, Paragraph Alignment) Using a Template to create a document. How to use an antivirus Software ?

(Note: It must be for every student to prepare a Project file / Student Portfolio)

Make a PowerPoint Presentation on the topic: - Online Transitions, advantages and Disadvantages of E-shopping email it on Section B (jitenderkumar@jpdavganaur.org) Section A and C

(sanjeetvats@jpdavganaur.org)