



ओ३म्
DAV PUBLIC SCHOOL SAMANA
(SENIOR SECONDARY)
CBSE AFFILIATED-1630571



SUMMER

Holidays



HOMEWORK

Session-2023-24

CLASS - X





CIRCULAR FOR SUMMER VACATION

Respected Parents

Namaskar / Sat Shri Akal

Happiness is blossoming in the year. Long awaited Summer holidays are again ready to welcome you with their warm showers! Life needs to be balanced between fun and work. Summer Vacation give a chance for students to relax, visit friends and family, travel to see places and basically chill out enjoying those little pleasure of life which are left behind during the busy school routine. During holidays, leisure replaces work as a priority.

The Summer Break is scheduled from 01-06-2023 to 02-07-2023 for classes Nursery to 12th and school will reopen on 03-07-2023 (Monday) So, 31st May, 2023 will be the last working day for classes Nursery to 12th.

Besides relaxing, the students should keep in mind the execution of the assigned work in well planned manner. To ensure that the children have a constructive and rejuvenating holidays, some Holidays Homework & Project are given which will keep them active and observant. These assignments can be easily done by the children under your guidance. These will indeed provide an enjoyable learning experience to them.

➤ The School Office will remain open on all working days between 9:00 a.m. to 2:00 p.m. during the Summer Vacations.

➤ Here are some productive tips for the students to spend their holidays in a healthy manner.

Do's

- ❖ Wake up early and develop a morning routine. Do yoga, meditation or just a brisk walk.
- ❖ Start learning a new skill like painting, dance, music or public speaking.
- ❖ Play games, sports and do a lot of physical activity, but only during the morning and evening hours.
- ❖ Help your parents in household chores and learn some useful skills.
- ❖ Carry on with the practice of wishing to elders by joining hands & touching their feet.
- ❖ All family members must try to take at least two meals together daily.
- ❖ Converse with your children in English.
- ❖ Encourage your child to develop the reading habit.
- ❖ Ensure that the choice of books he/she reads is purposeful while being entertaining.

Don'ts

- ❖ Do not waste all your time to playing video games, mobile games & surfing on social networking sites.
- ❖ Don't go out during the hours of peak sunshine. Try some interesting indoor activities.
- ❖ Don't have junk food.
- ❖ Don't oversleep and do not let laziness take you over. Stay active during the vacation.

Above mentioned guidelines will help your child to become a smart and an active learner.

HAPPY FATHER'S DAY

“Father is a great shield that protects us from every trouble and save us. So, say to your father that you are the one of the most powerful protector for me and my family.”

Father's Day is a celebration honoring fathers and celebrating fatherhood, paternal bonds, and the influence of fathers in society. To strengthen this bond, Let's celebrate **“FATHER'S DAY”** which falls on **18th June, 2023 (3rd Sunday)** this year. Prepare the complete detail about your father on colourful sheet and attach with Holidays Homework.

Wishing you and your ward a very fruitful vacation ahead!

Class Coordinators Contact Details

| Sr. No. | Name | Designation | Class | Contact |
|---------|---|-------------|-------------------------------------|--------------------------|
| 1. | Ms. Shifali Bhandari | PRT | Nursery to 2 nd | 7973838484 |
| 2. | Ms. Silki Yadav | PRT | 3 rd to 7 th | 9779666609 |
| 3. | Ms. Simranjit Kaur Mr. Ramphal Mehla | TGT | 8 th to 12 th | 9878895857 9876097728 |

Note : If you have any query related to any subject, you can contact to nominated HODs.

Details of HODs :-

| <u>Sr. No.</u> | <u>Subjects</u> | <u>Classes</u> 3rd to 6th | <u>Classes</u> 7th to 10th |
|-----------------------|------------------------|--|--|
| 1. | English | Mr. Raja Robin (9988131114) | Ms. Sheetal Mohini (9465027093) |
| 2. | Hindi & Sanskrit | Mr. Ganesh Prashad Bhatt (9997754817) | Ms. Anuradha Verma (8872117288) |
| 3. | Punjabi | Ms. Jaspreet Kaur (7986651600) | Ms. Rajwinder Kaur (9478383064) |
| 4. | Mathematics | Ms. Rishu Ghai (9780907117) | Mr. Damanpreet Singh (8264211149) |
| 5. | Science | Ms. Anamika (8699509869) | Mr. Vineet Jood (7206531910) Mr. Mayank Sharma (7307027516) |
| 6. | Social Science | Ms. Seema Rani (9465741012) | Ms. Rajni Rani (9780422755) Mr. Bittu Singh (9803506921) |
| 7. | Computer | Mr. Nardeep Singh (9888372702) | Mr. Nardeep Singh (9888372702) |
| 8. | Music & Dance | Ms Bindu Bala (7707806379) | Ms Bindu Bala (7707806379) |
| 9. | Naitik Shiksha | Mr. Charanjot Singh (9877717098) | Mr. Charanjot Singh (9877717098) |
| 10. | Physical Education | Mr. Ramphal Mehla (9876097728) | Mr. Ramphal Mehla (9876097728) |
| 11. | General Knowledge | Mr. Karan Soni (6239320003) | Mr. Karan Soni (6239320003) |

School Landline Contact No. s 01764-221815, 9878144815

E-Mail: davsamana@gmail.com, davsamana@yahoo.com Website: www.davsamana.org

Principal Mohan Lal Sharma

ENGLISH

Reading Task : Lesson- 4 A Question of Trust (Foot prints without Feet)

Learning work for Periodic Test-1

First Flight :- Lesson -2 Nelson Mandela: Long Walk to Freedom

Poem 3 : A Tiger in the Zoo

Footprints without Feet:- Lesson -1 A Triumph of Surgery

Grammar :- Tenses

Written Work :-Words and Expressions (**Workbook:-**Do the following given work in Workbook.

Units- 2 Text-1, Vocabulary-1 Grammar- 1,3 Editing-1

Project Work :Brochure Making on the Lesson Glimpses of India

Prepare Brochure on the following States.

Roll No (1-5) – Punjab, Roll No (6-10)-Orissa, Roll No (11-15)- Andhra Pradesh

Roll No (16-20)- Himachal Pradesh ,Roll No (21-25) -Goa ,Roll No (26-30)-Assam

Roll No (31-35)-Mizoram, Roll No (36-40)- Rajasthan ,Roll No(41 onwards) West Bengal

Guidelines for PPT:-

- Write Bio-data beautifully.
- Add some pictures with description.
- It should be informative and effective.

हिंदी

हिंदी पुरातन भाषा है, जिसमें भाव अपार ।
सहज-सरल-सरस इतनी कि सीख रहा संसार ॥

सामान्य निर्देश :-

- कार्य बताए हुए निर्देशों के अनुसार होना चाहिए ।
- आवधिक परीक्षण के लिए निर्धारित पाठों को सही ढंग से याद करें ।
- परियोजना कार्य को सुंदर ढंग से Assignment sheets पर किया जाए ।

1. पठन कौशल :-

कृतिका : पाठ -3 (साना -साना हाथ जोड़ि--) पढ़ें तथा इस के मुख्य संकेत बिंदु अपनी कृतिका की कॉपी पर लिखें ।

2. याद करने वाला कार्य : आवधिक परीक्षण की तैयारी करें ।

क्षितिज : पाठ-11 (बालगोबिन भगत)

कृतिका : पाठ -1 (माता का अंचल)

व्याकरण : पद परिचय

3. परियोजना कार्य :

1. जय शंकर प्रसाद का जीवन परिचय तथा रचनाएँ लिखें । (रचनात्मक लेखन)
2. सीता स्वयंवर के दृश्य को लघु नाटिका के रूप में चित्र सहित तैयार करें (comic book)

नैतिक शिक्षा

- सभी बच्चे अवकाश काल में अपने माता-पिता के कार्य में कुछ समय के लिए सहायता करें
- डी ए वी गान तथा आर्य समाज के 1-10 नियम याद करें ।
- 'दयानंद के उपकार' कविता याद करें ।
- करवाए गए पाठों के प्रश्न उत्तर याद करें (पाठ -2,5,9)

Mathematics

1. Do practice of below given Chapters for Periodic Test -1 to be conducted after summer holidays:

Chapter 1:- Real Numbers

Chapter 2:-Polynomials

Chapter 8: -Introduction to Trigonometry

2. Project work:- Working Model of Thales Theorem

Instructions:-

- Prepare your model beautifully.
- Use scale for accurate measurements.
- Use cardboard to balance it properly.
- Your explanation should be up to mark.

EXPERIMENTS FROM THE LAB MANUAL

Lab Activity: -5

To make a mathematical instrument clinometer for measuring the angle of elevation/ depression of an object.

Lab Activity: -1

To verify that the given sequence is an Arithmetic Progression by paper cutting and pasting method

Lab Activity: -8

To give a suggestive demonstration of the formula that the area of the circle is half the product of its circumference and radius (using formula for the area of triangle).

Lab Activity: -4

To verify the Basic Proportionality Theorem using parallel line board and triangle cut outs.

Lab Activity: -6

To verify that lengths of tangents drawn from an external point, to a circle, are equal by using method of paper cutting, folding and pasting.

Lab Activity: -11

To determine the area of a given cylinder.

Lab Activity: -15

To make a cone of given slant length and base circumference.

Lab Activity: -20

To get familiar with the idea of probability of an event through a double colour card experiment.

SCIENCE

HOLIDAY HOMEWORK:-

(A) Learn the following chapters for Periodic Test-1

- **Chapter-1** :Chemical Reaction and Equations.
- **Chapter-9** :Light –Reflection and Refraction.

(B) GENERAL INSTRUCTIONS FOR PROJECT WORK –

1. Use good quality assignment sheets.
2. Cover page containing School name, name of project, class, roll no, Submitted by, submitted to.
3. Index is mandatory.
4. Paste at least 1 photograph related to each topic.
5. Submit your project in folder.

PREPARE A PROJECT OF CHAPTER – Management of Natural Resources EXPERIMENTS FROM THE LAB MANUAL (VK GLOBAL):

EXPERIMENT-1 (Page no.13)

- Finding the pH of the samples by using pH paper/universal indicator:
 - (a) Dilute Hydrochloric Acid
 - (b) Dilute NaOH solution
 - (c) Dilute Ethanoic Acid Solution
 - (d) Lemon Juice

EXPERIMENT-2 (Page no.25)

- Performing and observing the chemical reactions and classifying them:
 - (a) Combination Reaction
 - (b) Decomposition Reaction
 - (c) Displacement Reaction
 - (d) Double Displacement Reaction
 - (i) Action of water on quick lime
 - (ii) Action of heat on ferrous sulphate crystals
 - (iii) Iron nails kept in copper sulphate
 - (iv) Reaction between sodium sulphate and barium chloride solutions

EXPERIMENT-3 (Page no.33)

- (a) Observing the action of Zinc (Zn), iron (Fe), copper (Cu) and aluminum (Al) metals on the various salt solution: (i) ZnSO_4 (aq) (ii) FeSO_4 (aq)
- (b) Arranging Zn, Fe, Cu and Al in the decreasing order of reactivity based on above result.

EXPERIMENT-4 (Page no.37)

- Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.

EXPERIMENT-5 (Page no.45)

- Determination of the equivalent resistance of two resistors when connected in series.

EXPERIMENT-6 (Page no.57)

- Preparing a temporary mount of a leaf peel to show stomata.

EXPERIMENT-9 (Page no.74)

- Study of the comparative cleansing capacity of a sample of soap in soft and hard water.

EXPERIMENT-12 (Page no.97)

- Studying (a) binary fission in amoeba and (b) budding in yeast

EXPERIMENT-13 (Page no.103) Tracing the path of the rays of light through a glass prism.

• **Other instructions for writing practical work:-**

| | |
|-------------------------------|------------------------|
| Blank page/ Plane page | Ruled page |
| Use pencil Only | Use pen Only |
| Date.....Expt. No..... | Date.....Expt. No..... |
| Aim | Aim |
| Material required | Material required |
| Diagram | Procedure |
| Observations | Results |

Work Sheet of Chapter 10 - Light

Take the printouts and solve the questions of same sheet.

MCQ's

- The inner side of a stainless spoon acts as a
 - Concave mirror
 - convex mirror
 - plane mirror
 - none of the above
- The concave mirror is used in the headlights of vehicle because it is able to give
 - Thin ray of light
 - powerful beam of light
 - spot of light
 - none of the above
- Which of the following mirror is able to give erect and diminished image because of this property, it is used for rear view mirror of the vehicles?
 - Concave mirror
 - convex mirror
 - plain mirror
 - none of the above
- The focal length of spherical mirror having radius of curvature 40 cm is
 - 10 m
 - 20 cm
 - 40cm
 - 25cm
- If the focal length of a concave mirror is 10 cm and an object is placed on centre of curvature. Then the image will be formed
 - At the focus
 - between F and C
 - At C
 - beyond 2C
- A lens and a mirror which will always give virtual image?
 - Concave lens, convex mirror
 - Concave lens, concave mirror
 - Convex lens, convex mirror
 - None of the above
- The power of a converging lens is 5D and that of diverging lens is 3D. The power of this combination of lenses placed together is
 - +2D
 - 2D
 - + 8D
 - 8D
- A toy car is placed at distance of 20 cm in front of plane mirror. The distance between the toy car and its image is
 - 20 cm
 - 40 cm
 - 10 cm
 - 0cm
- If the magnification of image produced with a lens is positive it means that image formed is
 - Virtual, erect, smaller
 - real, inverted , smaller
 - virtual , erect, enlarged
 - real, erect, smaller

9. When Ram focussed a distant building using a convex lens he was able to obtain its image 16 cm away from the lens. The focal length of the lens is
- a) 8 cm b) 16 cm c) 24 cm d) 32 cm

Assertion and Reasoning

10. **Assertion:** We cannot obtain a virtual image on a screen
Reason: Virtual image is an image obtained from the light rays coming from an object and the rays do not meet but appear to meet when produced backwards.
11. **Assertion:** when light passes from one medium to another medium, its direction changes.
Reason: The speed of light is different in different medium.
12. **Assertion:** A dentist uses convex mirror to see the image of teeth.
Reason: The concave mirror produces the magnified image of the teeth.
13. **Assertion:** when an object moves with velocity 2m/sec then its image in plane mirror moves with velocity 4m/sec
Reason: The image formed by a plane mirror is as far behind the mirror as it is in front of it.
14. **Assertion:** when a convex mirror is immersed in water, its focal length decreases.
Reason: The focal length of mirror is not dependent on the medium in which it is placed.

Case-based questions

15. **If you hold a concave mirror in your hand in such a way that you direct the reflected sunlight on a piece of paper where you obtain a bright light spot on the paper and after some time the paper burns producing smoke.**
- A. The paper starts burning at point because
- a) The sunrays after falling on the mirror converge at a point
b) The sunrays after falling on the mirror diverge from a point
c) No change occurs in the path of the light rays
d) None of the above
- B. The point at which the light spot is formed is known as the
- a) Pole b) Centre of curvature c) centre d) focus
- C. If an object is placed between the pole and focus of concave mirror than the image will be formed
- a) At F b) At C c) beyond C d) between F and C
16. **We have plane mirror as well as well spherical mirror. In case of spherical mirror the reflecting surface of the mirror may be curved. The curved surface may have inward curve and an outward curve as reflecting surface. A spherical mirror whose reflecting surface is curved inwards is known as the concave mirror. The other spherical mirror whose reflecting surface is curved out wards is the convex mirror.**
- A. In concave mirror the reflecting surface _____.
- a) Faces towards the centre of sphere c) Faces away from the centre of sphere
b) Is on the centre of the sphere d) None of the above
- B. Convex mirrors are
- a) Converging mirrors c) Diverging mirrors
b) Plane mirrors d) Refracting mirrors

C. Images produced by the convex mirror is

- a) Always virtual
- b) Always real
- c) Could be virtual or real
- d) Always inverted

17. While dealing with reflection of light by spherical surface. We follow the new Cartesian sign convention. In this convention, the pole is taken as the origin. The axis passing through the pole is referred to as the principal axis. The distance between the pole and object distance is known as the object distance (u) and the distance between the image and pole of the mirror is image distance (v)

A. Magnification produced by spherical mirror gives

- a) The relative extent to which the image of an object is magnified with respect to object size
- b) The relative extent to which focus changes with respect to object
- c) The ratio of the height of the image to the height of the object
- d) None of the above

B. Magnification produced by rear -view mirror fitted in vehicles is

- a) Less than one
- b) Equal to one
- c) More than one
- d) Variable depending on position of object

C. Focal length of concave mirror is

- a) Negative
- b) dependent on position of object
- c) Positive
- d) dependent on position of image

SOCIAL SCIENCE

Reading : History Chapter 1 - Nationalism In Europe

Periodic Test: Geography Chapter 2- Forest and Wildlife

Chapter 2 - Nationalism In India

Project Work: Make a Project on Assignment pages on the following topics as per Guidelines given by CBSE-

| Topics | Roll No. |
|----------------------------|------------|
| 1- Consumer Awareness | 1 to 16 |
| 2- Social Issues | 17 to 32 |
| 3- Sustainable Development | 33 onwards |

Objective of Project- *The overall objective of the Project work is to help students gain as insight and pragmatic understanding of the theme and see all the Social Science disciplines from interdisciplinary perspective. It should also help in enhancing the Life Skills of the students.*

Project Content must be as per the following-

| Consumer Awareness | Social Issues | Sustainable Development |
|-------------------------|-------------------------|-------------------------|
| Introduction | Introduction | Introduction |
| Position of Consumer in | Different Social Issues | History of Sustainable |

| | | |
|---------------------------|-------------------------------|------------------------------------|
| market | in India. | development |
| Consumer Movements | Historical background, | Needs and Importance with examples |
| Different Consumer Rights | Impact on Society, | Pillars of Sustainable development |
| Different Consumer Courts | Government role to eradicate | Sustainable Goals |
| Conclusion | Awareness about Social Issues | Principals of Sustainable Society |
| | Conclusion | Government's role and Conclusion |

Important instructions-

- Make best Project because this Project will be considered as Subject Enrichment activity/ Art Integration.
- Make Pictorial Project.
- Use assignment sheet to make project.
- Hand writing must be neat and clean without over writing.
- If any doubt related project then contact with your subject teacher.

INFORMATION TECHNOLOGY

Make a portfolio on Assignment Sheet on Unit 1- Word Processing.

1. Write about How to insert and use images in document and Paste Picture related to it.
2. Write about How to create and use table of content in document and Paste Picture related to it.
3. Write about How to apply mail merge in document and Paste Picture related to it.

Learn Unit 1- Word Processing and Unit 4- Web Application for Test.

ਪੰਜਾਬੀ

- ਹੇਠਾਂ ਦਿੱਤਾ ਗਿਆ ਸਾਰਾ ਸਿਲੇਬਸ ਯਾਦ ਕਰੋ।

ਵੰਨਗੀ ਪਾਠ-ਪੁਸਤਕ:- ਪਾਠ-1 ਕੁਲਫੀ (ਕਹਾਣੀ)

ਸਾਹਿਤ ਮਾਲਾ ਪਾਠ-ਪੁਸਤਕ:- ਪਾਠ-1 ਸੋ ਕਿਉਂ ਮੰਦਾ ਆਖੀਐ (ਕਵਿਤਾ)
ਪਾਠ-1 ਘਰ ਦਾ ਪਿਆਰ (ਵਾਰਤਕ)

ਵਿਆਕਰਨ ਭਾਗ :- ਬਹੁ ਅਰਥਕ ਸ਼ਬਦ

ਨੋਟ:- ਉੱਪਰ ਦਿੱਤੇ ਗਏ ਸਾਰੇ ਸਿਲੇਬਸ ਦੀ ਨਿਯਤਕਾਲਕ ਪਰੀਖਿਆ ਲਈ ਜਾਵੇਗੀ।

ਪੜ੍ਹਨ ਲਈ ਕੰਮ:- ਵਿਚਾਰ-ਪ੍ਰਧਾਨ ਲੇਖ

ਕਲਾ ਇਕੱਤਰਤਾ ਗਤੀਵਿਧੀ :- ਨਸ਼ਿਆਂ 'ਤੇ ਪੋਸਟਰ (A4 ਸ਼ੀਟ 'ਤੇ) ਤਿਆਰ ਕਰੋ।

ਪ੍ਰੋਜੈਕਟ:- ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਅਤੇ ਤਿਉਹਾਰ (ਕੋਈ ਚਾਰ), ਲੋਕ-ਖੇਡਾਂ (ਕੋਈ ਪੰਜ) ਵਿਸ਼ੇ ਤੇ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੋ।



- 'ਪ੍ਰੋਜੈਕਟ ਅਸਾਈਨਮੈਂਟ ਸ਼ੀਟ 'ਤੇ ਬਣਾਇਆ ਜਾਵੇ।
- ਅਸਾਈਨਮੈਂਟ ਸ਼ੀਟ ਦੇ ਘੱਟ ਤੋਂ ਘੱਟ 8-10 ਪੇਜ ਹੋਣੇ ਚਾਹੀਦੇ ਹਨ।
- ਕੰਮ ਸੁੰਦਰ ਲਿਖਾਈ ਵਿਚ ਕੀਤਾ ਜਾਵੇ।
- ਹਰ ਇਕ ਵਿਸ਼ੇ ਦੀ ਤਸਵੀਰ ਜਰੂਰ ਲਗਾਈ ਜਾਵੇ।
- ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ ਲਈ ਪ੍ਰੋਜੈਕਟ ਦੇ ਨੰਬਰ ਲਗਾਏ ਜਾਣਗੇ।

Health and Physical Education (Holiday Home Work)

General Instructions:

1. Take care about your health.
2. Do morning walk daily.
3. Play outdoor games in Morning & Evening only.
4. Take proper balance diet for good health.
5. Have your meals at fixed time.
6. Always have light meals.
7. Take milk daily because it repairs broken cell of body.
8. Do practice of yoga daily.
9. Practice Asanas for period of 20 to 30 minutes.

Project Work:-

1. Make a file of major game
(Volleyball and kho-kho) With History of game, measurement of ground ,professional techniques used in the game, Official and player of National and International Level from India.
2. Make a yoga file of 4 Asana.
like-Padamaasana, Tarasana, chakaraasana and Halasaana with there benefits and precautions.
(Not-Surya namaskar is compulsory)

CREATIVE WORK

Prepare Charts on -

- Roll No. 1 to 3 – July Month Value Education Topic
- Roll No. 4 to 6 – August Month Value Education Topic
- Roll No. 7 to 9 – September Month Value Education Topic
- Roll No. 10 to 12- October Month Value Education Topic
- Roll No. 13 to 15- November Month Value Education Topic
- Roll No. 16 to 18 – December Month Value Education Topic
- Roll No. 19 to 21 – January Month Value Education Topic
- Roll No. 22 to 24 – February Month Value Education Topic
- Roll No. 25 to 27 – March Month Value Education Topic
- Roll No. 28 to 30 – Invitation Card
- Roll No. 31 to 32 – Good Thoughts
- Roll No. 33 to 40- Handmade Folder
- Roll No. 41 onwards – Make Frills for Board Decoration

NOTE- Month wise Value Education Topics are mentioned in your Study Plan.