



VIKAS BHARATI PUBLIC SCHOOL

SESSION: 2025-2026

CLASS: IX

HOLIDAY HOMEWORK


 **Hello Summer!** 

Dear Parents, Warm Greetings!

It's time to smile, the sun is bright,
The days are long, the hearts are light.
School bags rest, the bell won't ring—
Now's the time to laugh and sing!
Splash in water, read a book,
Try a new recipe, learn how to cook.
Paint the sky with colors bold,
Share some stories, new and old.
Plant a seed, watch it grow,
Take a walk where cool winds blow.
Help at home, spread some cheer,
Make this summer bright and clear.
Hug your elders, be polite,
Shine with kindness, pure and bright.
You're a star, a dream in flight—
A proud Vikas Bharatian, glowing with light!
So let's explore, create, and play,
Make the most of every day.
Let joy and learning intertwine,
This summer, let your spirit shine!





Welcome to the Holiday Homework Adventure!

This packet is your gateway to a meaningful summer—one filled with discovery, creativity, and growth. Whether you're diving deep into the wonders of science, unravelling the layers of history, solving challenging math puzzles, or weaving tales in English, this homework is designed to ignite your mind and expand your horizon.

As you work on each subject:

- **Think independently – Reflect before you respond.**
- **Be curious – Ask questions, research, and go beyond the textbook.**
- **Stay creative – Present your work beautifully with visuals and original ideas.**
- **Grow stronger in concepts – Practice and revise regularly.**
- **Explore beyond the classroom – Apply what you learn to real life.**

A Few Suggestions for a Fruitful Summer:

Read a variety of books and articles.

Try hands-on learning: science experiments, cooking and gardening.

Take breaks from screens; enjoy nature and family time.

Organize your work using folders or files for each subject.

May your summer be sunny, stimulating, and successful!

Get ready for PA 1 and enjoy the break!







ENGLISH



PORTFOLIO

- ❖ Write  five diary entries on A4 size sheets. Keep them in a folder. 

MULTIPLE ASSESSMENT ACTIVITY

- ❖ Make a document related to the poem 'The Road Not Taken'. Paste picture and explain the main highlights of the poems. Use coloured A4 size sheets for the activity. Keep them in a folder.

SHARP. INSIGHTS

- **Tenses-** Page Numbers (203 – 209)
- **Subject Verb Agreement** - Page Numbers (222)
- **Comprehension** (13-20)





HINDI



बहुविध आंकलन कार्यकलाप (5 अंक)

विवरण:-

नीचे दिए गए कवि की सूची में-से अपने अनुक्रमांक के अनुसार कवि चुनें तथा उन पर शोध करके, उनके बारे में जानकारी एकत्रित करके, एक फाइल में कलमबद्ध करें:-

1. अनुक्रमांक 1, 26 = अटल बिहारी वाजपेयी
2. अनुक्रमांक 2, 27 = कुमार विश्वास
3. अनुक्रमांक 3, 28 = मीरा बाई
4. अनुक्रमांक 4, 29 = रसखान
5. अनुक्रमांक 5, 30 = कैफ़ी आज़मी
6. अनुक्रमांक 6, 31 = वीरेंद्र डंगवाल
7. अनुक्रमांक 7, 32 = काका हाथरसी
8. अनुक्रमांक 8, 33 = कबीर दास
9. अनुक्रमांक 9, 34 = रामधारी सिंह दिनकर
10. अनुक्रमांक 10, 35 = सूर्यकांत त्रिपाठी निराला
11. अनुक्रमांक 11, 36 = अब्दुल रहीम खानखाना
12. अनुक्रमांक 12, 37 = सूरदास
13. अनुक्रमांक 13, 38 = कालिदास
14. अनुक्रमांक 14, 39 = रवीन्द्रनाथ
15. अनुक्रमांक 15, 40 = हरिवंश राय बच्चन
16. अनुक्रमांक 16, 41 = मैथिलीशरण गुप्त
17. अनुक्रमांक 17, 42 = अशोक चक्रधर
18. अनुक्रमांक 18, 43 = अमृता प्रीतम
19. अनुक्रमांक 19, 44 = सुभद्रा कुमारी चौहान
20. अनुक्रमांक 20, 45 = कुंवर नारायण
21. अनुक्रमांक 21, 46 = अरुण कमल
22. अनुक्रमांक 22, 47 = महादेवी वर्मा



23. अनुक्रमांक 23, 48 = यशपाल
24. अनुक्रमांक 24, 49 = नागार्जुन
25. अनुक्रमांक 25, 50, 51 = जय शंकर प्रसाद

उपर्युक्त कवियों के बारे में निम्नलिखित जानकारी अपने शोध कार्य में सम्मिलित करें:-

- * जीवन परिचय
- * शिक्षा
- * सामाजिक जीवन में योगदान
- * पुरस्कार
- * उनके द्वारा लिखित रचनाओं की सूची
- * किसी एक रचना की संक्षेप में पूर्ण जानकारी

नोट:- सभी छात्र अपनी फाइल में निम्नलिखित पृष्ठ अवश्य बनाएँ:-

- * मुख्य आवरण पृष्ठ
- * प्रमाण पत्र
- * आभार
- * सूची
- * परिचय
- * निष्कर्ष
- * ग्रंथ सूची
- * अध्यापिका की टिप्पणी

पोर्टफोलियो कार्यकलाप:-

1. पाठ्य पुस्तक स्पर्श में से 'तुम कब जाओगे अतिथि' और 'वैज्ञानिक चेतना के वाहक सर चंद्रशेखर वेंकट रामन' पढ़ कर आएं।
(इन दोनों पाठों पर आधारित श्रुतलेख लिया जाएगा, जिसके अंक निर्धारित होंगे)
2. स्वयं के विषय में चिंतन करते हुए सकारात्मक व नकारात्मक पक्ष लिखकर लाएं।(दस -दस वाक्य)
3. ग्रीष्म अवकाश में आप जिस स्थान पर घूमने गए हैं । उसका यात्रा वृत्तांत लिखिए तथा संबंधित चित्र भी चिपकाएं।
4. रहीम के दोहे परीक्षा हेतु कंठस्थ कीजिए।
5. निम्नलिखित विषयों पर अनुच्छेद लिखें:-
 - * खेलों के प्रति जागरूकता
 - * पर्यावरण संरक्षण



SCIENCE

Topic: Project report on the given topics

Instructions:

Prepare a project report according to the roll numbers assigned.

Use diagrams and relevant content. Project needs to be made using A-4 sheets.

Creativity and clarity will be evaluated.

Roll No. 1-9: Health and Its Failure

Objective:

Explore the definition of health, factors affecting it, and causes of health failure.

Steps:

1. Define health (physical, mental, social well-being).
2. Investigate factors affecting health: genetics, environment, lifestyle.
3. Identify causes of health failure (imbalances in health components).
4. Compare being healthy vs. disease-free.

Roll No. 10-18: Types of Diseases – Infectious vs Non-infectious

Objective:

Compare infectious and non-infectious diseases.

Steps:

1. Define diseases and classify them: infectious vs. non-infectious.
2. Compare how they spread, causes, and examples.
3. Explore immunity's role in disease prevention.

Roll No. 19-27: Infectious Diseases – Causes and Manifestations

Objective:

Understand the causes, symptoms, and transmission of infectious diseases.

Steps:

1. Study pathogens: viruses, bacteria, protozoans, fungi.
2. Examine diseases caused by each type (e.g., TB, Malaria, AIDS).
3. Identify entry points, symptoms, and transmission modes (air, water, vectors).





Roll No. 28-36: Non-infectious Diseases – Causes and Examples

Objective:

Investigate non-infectious diseases and their causes.

Steps:

1. Define non-infectious diseases (non-communicable).
2. Explore causes: genetic, lifestyle, environmental.
3. Compare chronic vs. acute conditions with examples (e.g., diabetes, asthma).

Roll No. 37 and onwards: Principles of Treatment and Prevention

Objective:

Understand treatment and prevention principles for diseases.

Steps:

1. Study treatment methods (antibiotics, symptom relief, restoring functions).
2. Explore prevention strategies (hygiene, vaccination, public health).
3. Investigate the immune system's role and early diagnosis importance.





SOCIAL SCIENCE

Project Work – DISASTER

MANAGEMENT Individual Activity

“We cannot stop natural disasters but we can arm ourselves with knowledge: so many lives wouldn't have to be lost if there was enough disaster preparedness.” - Petra Nemcova

Keeping the above statement in mind prepare a project on Disaster Management.

Note: Follow this pattern while making your project.

- Design a cover page.
- Students Profile with a passport size photograph.
- Make an Index
- Acknowledgement.
- Introduction.
- Preface.
- Case study. (Take any one disaster in detail-Natural/Man-made)
- Conclusion
- Glossary
- Bibliography
- Teacher's remarks.

Note: There are ten compulsory pages in the project i.e., cover page, student profile, index, acknowledgement, introduction, preface, conclusion, glossary, bibliography and teacher's remarks. These 10 compulsory pages should be on the right hand side of the Project file.

IMPORTANT INSTRUCTIONS:

- ☞ The project work will be of 5 marks.
- ☞ This project is compulsory for all.
- ☞ Marks of this project will be added in the finals.
- ☞ The project report should be handwritten.
- ☞ Refer Disaster management book. You can also refer e-book through <https://www.cbse.gov.in>
- ☞ The Project should contain at least 15-20 pages.
- ☞ Make use of A4 size sheets with spiral binding



MATHEMATICS

1. Complete the following Lab Activities in your **Revision Booklet**:

Activity 1 - To make a square root spiral of first ten natural numbers.

Activity 3 – To show that if two parallel lines are intersected by a transversal then, (i) each pair of alternate angles are equal. (ii) each pair of corresponding angles are equal and (iii) each pair of co interior angles are supplementary.

Activity 4 – To obtain mirror image of the given points.

2. Practice all the chapters covered in class.

3. **Make a beautiful Portfolio on the following topic :**

Geometry in Real Life

POINTS TO REMEMBER

- Use A4 size-coloured sheets.
- Your project should contain 8 to 10 pages.
- **SUBMISSION OF THE PROJECT SHOULD BE ON TIME.**

❖ **Follow the following points to complete your project.**

1. “Title Page”

- Project Title
- Student Name
- Class and Section
- School Name





2. “Introduction”

- Brief overview of geometry in everyday life.
- Importance of geometry in everyday life.

3. “Real Life Applications”

Choose at least 3 real life examples where geometry is applied. Examples may include:

- Architecture (e.g. pyramids, bridges, buildings)
- Nature (e.g. honeycombs, flower petals, snowflakes)
- Art (e.g. mandalas, mosaics)
- Technology (e.g. computer graphics, engineering designs)
- Transportation (e.g. traffic signs, vehicle designs)

4. “Mathematical Explanation” for each example:

- Describe the shape or structure.
- Identify geometric concepts (angles, symmetry, polygons, circles, 3D shapes, etc.)
- Include diagrams, labelled figures, or pictures
- Show simple calculations wherever applicable (area, perimeter, volume, etc.)



5. “Creative presentation”

- Use coloured drawings or printed images.
- Ensure neatness and logical flow.
- Add captions, headers and bullet points for clarity.

6. “Conclusion”

- Reflect on what you learned.
- Importance of geometry in understanding and shaping the world.

7. “Bibliography”

- List of references (books, websites, articles, etc.)
- 
- 



ARTIFICIAL INTELLIGENCE



PART D

Project Work/Field Visit

15 MARKS

Guidelines for submitting the project

- Students need to explore and create the machine learning project in Teachable Machine Platform (link given below) on any innovative theme/topic related to sustainability.

<https://teachablemachine.withgoogle.com/>

Youtube Tutorial Links

<https://www.youtube.com/watch?v=DFBbSTvtpy4>

<https://www.youtube.com/watch?v=CO67EQ0ZWgA>

<https://www.youtube.com/watch?v=n-zeeRLBgd0>

- The project file should include the **cover page (including name, class, sec, roll. no., subject)**, **screen shots** of the project and its functioning (4 screenshots adjusted on two pages)
- Printout of the project file needs to be submitted.
- Project file would be judged on the following criteria
 - Content**
 - Creativity**
 - Presentation**
 - Originality**





INFORMATION TECHNOLOGY

PROJECT WORK

Guidelines for the project

- Students need to explore and create the machine learning project in Teachable Machine Platform (link given below) on any innovative theme/topic of their choice (printouts are not required to be submitted)

<https://teachablemachine.withgoogle.com/>

Youtube Tutorial Links

<https://www.youtube.com/watch?v=DFBbSTvtpy4>

<https://www.youtube.com/watch?v=CO67EQ0ZWgA>

<https://www.youtube.com/watch?v=n-zeeRLBgd0>



ART & CRAFT



Dear Children

Kindly go through the following videos and create any one useful craft based on these ideas. You are free to choose any other craft idea depending upon the availability of resources at home.

- <https://youtu.be/OjgnpEWxjys?feature=shared>
- <https://youtu.be/MJRSTkHvzLo?feature=shared>
- <https://youtu.be/D7ThZCVv60k?si=fIiNN6iNv6biCF-Z>

