



K.V.M. PUBLIC SCHOOL HALDWANI

HOLIDAY HOMEWORK (2025-26)

(CLASS: IX)

ENGLISH

Instructions- Do all the work in your grammar notebook.

- VOCABULARY ENRICHMENT- Read any English Newspaper daily, pen down five difficult words and frame two meaningful sentences using those words.
- STORY WRITING- Write the story on the following topics as per the given roll numbers.
Make it more attractive and eye-catching by adding creative illustrations to it.
 - Actions Speak Louder Than Words (roll numbers 1 to 22)
 - Better Late Than Never (roll numbers 23 to last roll no.)
- POEM COMPOSITION- Compose a poem on the topic 'My Best Friend / Our Friendship / My Friends' in not less than 20 lines. You may paste the picture of your friend /friends to make it more lively.
- IDIOMS AND PHRASES- Write any 20 idioms and phrases (10 on animals and 10 on body parts) and make at least 2 sentences using each one of them.

हिन्दी

- 'पाकिस्तान को मुंहतोड़ जवाब ऑपरेशन सिंदूर' विषय पर अनुच्छेद लेखन करें।
- आपके चाचा जी जो मुंबई में रहते हैं, विदेश जा रहे हैं। आप उनसे एक लैपटॉप मंगाना चाहते हैं। इस संबंध में उन्हें निवेदन पत्र लिखिए।
- पेड़ पौधों के अनियंत्रित कटाव को रोकने के लिए जिलाधिकारी को ईमेल पत्र लिखें।
- रेलवे पूछताछ - खिड़की पर विवेक और पूछताछ बाबू के बीच संवाद लिखें।

MATHEMATICS

- Find four solutions of the equation $2x - \pi y = 7$.
- The coordinates of three vertices of a rectangle PQRS are P(3,2), Q(-4,2), R(-4, 5). Plot these points on graph paper and find the coordinates of the vertex S.
- Simplify
 - $$\frac{7}{7\sqrt{7} - 5\sqrt{5}}$$
 - $$\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$$
- Find the value of $a^3 + b^3 - 3ab$, if $a + b = -1$.
- If $x + 2k$ is a factor of $x^5 - 4k^2x^3 + 2x + 2k + 3$, then find the value of k .

PROJECT WORK

Do activity numbers 3, 4 and 6 in Maths Lab Manual.

SOCIAL SCIENCE (INTERDISCIPLINARY PROJECT)

An inter-disciplinary project involves combining 2 or more disciplines into one activity-more coherent and integrated. You are required to combine the disciplines of History and Geography here.

This year CBSE has suggested two chapters of our book for an inter-disciplinary project. Chapters are:

- Forest, Society and Colonialism
- Natural Vegetation and Wildlife Project file must be beautifully maintained and kindly stick to the CBSE pattern of project making.

The project should be developed and presented in this order:

- | | | |
|-----------------|---------------------|----------------|
| 1- Cover Page | 2- Acknowledgement | 3- Certificate |
| 4- Index | 5- Content Pages | 6- Conclusion |
| 7- Bibliography | 8- Teacher's remark | |

Instructions: i. It must be hand written.

ii. Relevant pictures and maps must be pasted.

SCIENCE

(Physics)

To draw the displacement – time and velocity – time graph for the following real life situations :

1. A stone thrown vertically upwards and returning back to the ground.
2. A body moving with uniform speed for first 2 hours then remains at rest for next 2 hours and then again starts moving with the same speed.
3. Rebounding of a basketball three times.
4. Raindrops falling from the cloud whose velocity increases for the first 3 hours and then the velocity becomes constant.
5. A balloon rises up for 3 minutes with an acceleration and then move with constant speed.

(Biology)

Give the reason for the following -

1. Why are plant cell more rigid than animal cell?
2. Bacteria do not have chloroplast but some bacteria are autotrophic in nature and perform photosynthesis. Which part of the bacterial cell perform this?
3. Why does the skin of your finger shrink when you wash clothes for a longer time?
4. Why is endocytosis found in animals only?

(Chemistry)

Case Study Based-

Q-1 . A student was asked by his teacher to separate an impure sample of sulphur containing sand as the impurity. He tried to purify it with the help of sublimation. But he was not successful. Particles of sulphur could not be separated completely from sand.

- i. Why did not sublimation process succeed?
- ii. Suggest an alternate method to affect the separation.
- iii. What is value-based information associated with this?

Q-2. How can you convert saturated solution into unsaturated or vice-versa?

Q-3. How will you separate a mixture containing kerosene and petrol, which are miscible with each other?

Q-4. Write the steps you would use for making tea. Use the words solution, solvent, solute, dissolve, soluble, insoluble, filtrate and residue.

Q-5 How would you confirm that a colourless liquid given to you is pure water?

INFORMATION TECHNOLOGY

Instructions:

All assignments to be done neatly in a separate notebook or printed (as instructed).

Submit the work in the first week after the summer vacation.

Be creative and original in your responses.

1. Project Work: Presentation

Topic: Cyber Safety & Digital Footprint

Task: Create a PowerPoint presentation with 6–8 slides covering:

What is cyber safety?

Types of cyber threats

Best practices to stay safe online

Understanding digital footprints

Tips for maintaining a positive digital presence

Bonus: Add visuals and examples.

2. Research Assignment

Topic: IT Applications in Daily Life

Instructions: Write a 1–2 page report (typed or handwritten) on how IT is used in:

Healthcare, Education and Banking

Include real-life examples and the benefits of IT in each sector.

3. Practical Task

Task: Practice the following in any word processing software (MS Word / note pad):

Typing a short paragraph (about yourself – 100 words)

Use formatting features: bold, italics, underline, font color, and alignment

(Take a screenshot or printout and paste it in your notebook)