



DAV PUBLIC SCHOOL, HEHAL, RANCHI(MCM BLOCK)

SUMMER HOLIDAYS HOMEWORK(2023-24)

CLASS- IX

ENGLISH

1. With the help of power point presentation, prepare the Life Sketch of the poet 'ROBERT FROST'.
2. With the help of POSTER 'Prepare TENSE TREE. (Include tense structures, Examples - positive, Negative & Interrogative) - Use A4 size white chart paper to make tense tree.
3. Complete the biographical details of RUSKIN BOND in a A4 Size white Chart paper.
4. Write a story in 100-120 words with the help of the following outline-
Tortoise and hare -good friends-tortoise -known for his slow speed -hare has fast speed - makes fun of tortoise -challenges him- referee selected- race starts-hare overconfident--takes a nap- tortoise wins. (Complete in A4 size white sheet)

NOTE- Students have to choose any two of the above four.

SOCIAL SCIENCE

1. Prepare a project work on "Impact of increasing population in India."
2. Give a comparative account of symbols and their messages evolved during the French Revolution and Indian National Movement.(Draw them also)
3. Most newspapers have an editorial page. On that page the newspaper publishes it's own opinions about current affairs. The papers also publish the views of other writers and intellectuals. Follow any one newspaper for one month and collect editorials, articles and letters on that page that have anything to do with democracy. Classify these into the following categories:
 - Constitutional and legal aspects of democracy.
 - Citizen's rights.
 - Electoral and party politics.
 - Criticism of democracy.
4. What can be done so that more and more non-farm production activities can be started in villages?

Note: 1. For Ques. No. 1. use A4 size interleaf paper and put in stick file.

Ques. No. 2,3&4 do in HHW copy.

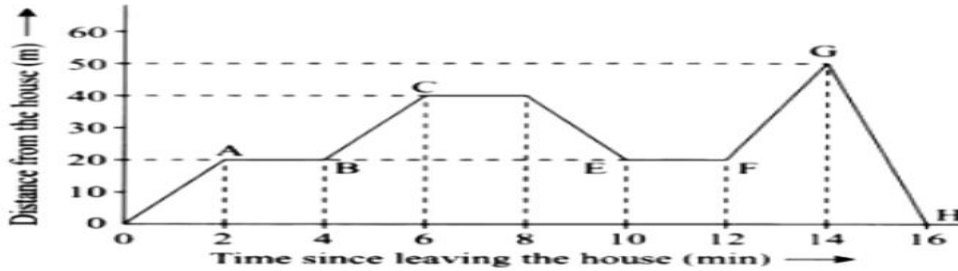
SCIENCE

PHYSICS

Data Based Integrated Questions

1. The following graph describe the motion of a girl going to meet her friends who stays 50 m from her house.
 - (a) How much time she takes to reach her friends house .
 - (b) What is the distance travelled by the girl during the time interval 0 to 12 minutes?
 - (c) During which time interval she is moving towards her house ?

- (d) For how many minutes she was at rest ,during entire journey?
 (e) Calculate the speed by which she returned home.



2. Malti is very confident in a two wheeler driving. she is careful about the perfect operations of breaks of a scooter. One day her father asked her about the average kilometer being run per litre of petrol consumed by the scooter .Malti told her father that she could not tell him because the wire of the meter was broken since long. Her father advised her to be as careful about this wire as about the break wire .He also told her the name of the meter they were



talking about.

- (a) Why did Malti's father advise her to be careful about the healthy working of meter ?
 (b) What is the difference between odometer and speedometer?
 (c) What is average speed ?
 (d) What is instantaneous speed of the vehicle?

CHEMISTRY

1. An ice pack is placed on the forehead of a person suffering from fever. Explain the principle.

Art integrated

2. Study the changes in state of sublimable solids on heating and prepare a project on Sublimation Art widely used in business and home designers.

BIOLOGY

1. Why does skin of your fingers shrink when you wash clothes for a long time ?
 2. What does chromosome contain? Make the diagram of nucleus.

NOTE- Do in a single Holiday Homework Copy.

IMPORTANT- Think some innovative idea for science model and write in a A4 size sheet with sketch of model.(Model is not required)

SANSKRIT

- वृताकाररूपे वृक्षाकाररूपे मत्स्याकाररूपे वा उदाहरणानुसारं ग्रीष्मावकाश-गृहकार्यं कुर्वन्तु---
शब्दरूपाणि --बालक ,साधु ,नदी
धातुरूपाणि-- गम् , कृ (पंचलकारेषु)
संख्या --एकतः चतुःपर्यन्तम्(त्रिषु लिंगेषु संख्या-उदाहरणसहितं लिखन्तु।)
सन्धिः--दीर्घ-गुण-वृद्धि-यण्-सन्धीनां पंच-पंच उदाहरणानि लिखन्तु स्मरन्तु च ।
ध्यातव्यम् --गृहकार्याणि केवलं चित्रमाध्यमेन प्रदर्शयन्तु ।



- प्रथम-अध्यायस्य सर्वाणि कार्याणि पुनः पुनः पठित्वा स्मरणं कुर्वन्तु।

HINDI

- मुंशी प्रेमचंद जी द्वारा रचित पाँच उपन्यासों एवं पाँच कहानियों के नाम लिखें।
- कबीरदास जी का जीवन परिचय एवं उनके द्वारा रचित प्रसिद्ध कोई पाँच दोहे अर्थ सहित लिखें।
- 'ग्रीष्मऋतु'शीर्षक पर एक अनुच्छेद लगभग 80 से 100 शब्दों में लिखें।
- निम्नलिखित शब्दों में से उपसर्ग और मूलशब्द अलग कर लिखें।
(i) अत्यधिक (ii) आजन्म (iii) प्रत्येक (iv) अनुकूल (v) सुशांत (vi) अभिज्ञान (vii) धर्मपुत्र (viii) दुर्दशा
- निम्नलिखित प्रत्ययों से दो-दो शब्द बनाकर लिखें।
(i) आस (ii) ती (iii) आव (iv) ईला (v) लु (vi) इया (vii) आऊ (viii) आवा

नोट:-सभी कार्य साफ़-सुथरे ढंग से एक पतली होमवर्क कॉपी में लिखें।

MATHS

- Construct a square root spiral at least up to $\sqrt{12}$.
Construct the above spiral in chart paper in the artistic way. You may use different colour sketch pens.
- If a and b are rational numbers and $\frac{3+\sqrt{7}}{3-\sqrt{7}} = a + b\sqrt{7}$, find the values of a and b.
- If $x = (5 + 2\sqrt{6})$, then show that $\sqrt{x} + \frac{1}{\sqrt{x}} = 2\sqrt{3}$.
- Factorize: $a^3(b-c)^3 + b^3(c-a)^3 + c^3(a-b)^3$.
- Factorize: $4x^2 - 1 - 6y - 9y^2$.
- Factorize: $2x^2 - 7x - 15$.

7. Factorize $x^3 + 13x^2 + 32x + 20$.
8. Express $18.\overline{48}$ in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$.
9. Represent $\sqrt{10.5}$ on the number line.
10. Find four **irrational** numbers between $\frac{1}{7}$ and $\frac{2}{7}$.
11. If $x = 3 + 2\sqrt{2}$, then find the value of $x^3 - 1/x^3$.

Note- Do in a holiday homework copy.

MUSIC

1. Practice 5 Alankars with their mathematical sequences as taught during classes.
2. Practice any one devotional , one Patriotic song and one bollywood song with good lyrics which can be presented before teachers and parents and write it in your Music copy.
3. Practice any one form of Indian Dance (Classical or folk) of your choice daily.
4. Paste pictures of renowned Classical instrumental players, dancers , Singers of India in your music copy.
5. Paste pictures of Indian instruments and folk dances of India in your music copy.
6. Meditation 10 to 15 minutes daily.

IT(INFORMATION TECHNOLOGY)

1. Explain Hardware and software.
2. What is WWW (World Wide Web)?
3. Differentiate between Intranet and internet.
4. What is the role of operating system? Give the name of two operating system.
5. List and write down the function of four Input and output devices.
6. Differentiate between RAM and ROM memory.
7. What is ChatGpt?
8. What is web browser and web server?

Note- Do in a holiday homework copy.