

THE VOYAGE OF LEARNING

A Summer Message from the Desk of the Director

"Learning is a treasure that will follow its owner everywhere."

Dear Parents and Students,

As we approach the vibrant summer break, I extend my warmest wishes to all our students and their families. Vacations are a wonderful time to relax, rejuvenate, and create beautiful memories together. However, it is also a golden opportunity to keep the spark of curiosity alive.

Important Summer Schedule

- **Summer Vacation Begins:** Saturday, 29th May 2026
- **Summer Vacation Concludes:** Tuesday, 30th June 2026
- **School Reopens:** Wednesday, 1st July 2026 (at the usual school time)

Our **Holiday Homework** has been thoughtfully designed not as a burden, but as a bridge—a way to connect classroom learning with creative, real-world exploration from **29th May to 30th June**. It aims to foster independent thinking, creativity, and self-discipline in our students.

TO OUR DEAR STUDENTS

Use this time to read widely, explore new hobbies, and engage deeply with the projects assigned to you. Challenge yourselves, stay curious, and remember that consistent, daily efforts make learning effortless.

TO OUR RESPECTED PARENTS

We view education as a shared partnership. We kindly request you to guide and supervise your children as they work through their assignments. Encourage them to manage their time effectively so they can balance both recreation and learning throughout this break. Your encouragement is the greatest catalyst for their academic growth.

Let us utilize this break to discover new passions and return to school on **1st July, 2026** with renewed energy, enthusiasm, and a deeper love for learning.

We wish you all a safe, happy, and intellectually fulfilling summer vacation!

Warm regards,

Director

Jaycees Public School



JAYCEES PUBLIC SCHOOL RUDRAPUR
HOLIDAY HOMEWORK (SUMMER BREAK)
CLASS: IX

English:-

GENERAL INSTRUCTIONS:-

- Attempt all the questions.
- Maintain neat handwriting and creativity.
- Add colours, borders, pictures or sketches wherever possible.

Q1 Write a self-composed poem on ANY 1 of the following – NATURE, FAITH, NEVER GIVE UP! Or WORLD OF MY IMAGINATION

Q2- Write 15 quotes by famous personalities with their explanation in beautiful handwriting on coloured A4 papers. [Use creative presentation in calligraphy /borders and images]

Q3- Read any one of the given novels The adventure of Tom Sawyer/Oliver Twist/ The invisible man/Pride and prejudice or The guide and write its review in about 100-120 words

Q4- Write a descriptive paragraph [120-150 words] on any 1 of the following personalities [Biography].

A.P. J Abdul Kalam, Virat Kohli, Raghav Chaddha, Ranbeer Singh

Q5- Write 5 idioms, phrases and proverbs with their meanings and frame simple sentences of your own for 10 days as per the given table.

[Roll no 1-15]	[Roll no 16-30]	[Roll no 31-50],
Letter A-H	Letter I-O	Letter P-Z

Q6- Write a letter to the editor as per the given instructions.

[Roll no 1-15]	[Roll no 16-30]	[Roll no 31-50]
Expressing concern over excessive mobile phone usage among teenagers and suggesting ways to control it.	Highlighting importance of reading books and suggesting ways to promote it among today's youth.	Expressing concerns over rising cyber-crimes targeting teenagers.

Q7- Prepare a creative travelogue you wish to visit during summer break.

[Roll no 1-12]	[Roll no 13-24]	[Roll no 25-36]	[Roll no 37-50]
Theme 1 – North India – MONUMENTS	Theme 2 – North-East India- Scenic beauty of Mizoram	Theme 3 – Theme - South Indian temples	Theme 4– West India: Industrial hub

Mathematics:-

1. We know that Natural Numbers are closed under addition (the sum of any two natural numbers is always a natural number). Are they closed under subtraction? Provide a couple of examples to justify your answer

2. Find the rational number x such that: $\frac{5}{6}\left(x + \frac{3}{5}\right) = \frac{5}{6}x + \frac{1}{2}$

3. Find three distinct rational numbers that lie strictly between $-1/2$ and $1/4$

4. A tailor has $15\frac{3}{4}$ metres of fine silk. If making one kurta requires $2\frac{1}{4}$ metres of silk, exactly how many kurtas can he make?

5. Convert $2.45\overline{37}$ into the form p/q .

6. If $x = 2 + 3\sqrt{2}$ then find the value of $x + \frac{14}{x}$

7. Are the points M $(-3, -4)$, A $(0, 0)$ and G $(6, 8)$ on the same straight line? Suggest a method to check this without plotting and joining the points

8. Without performing division, determine whether the decimal expansion of $18/125$ is terminating or non-terminating. If it terminates, state the number of decimal places.

9. Plot point M (6, -8) on the Cartesian plane. Construct a right-angled triangle OMP and find the lengths of the three sides.

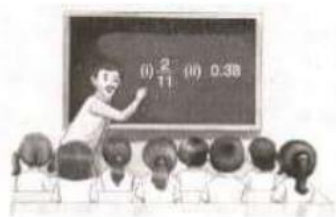
10. The following table shows the coordinates of points S, M and T. In each case, state whether M is the midpoint of segment ST. Justify your answer.

S	M	T	Is M the midpoint of ST? Yes or No	Reason for your answer
(-3, 0)	(0, 0)	(3, 0)		
(2, 3)	(3, 4)	(4, 5)		
(0, 0)	(0, 5)	(0, -10)		
(-8, 7)	(0, -2)	(6, -3)		

When M is the mid-point of ST, can you find any connection between the coordinates of M, S and T?

11. Determine rational numbers p and q if $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = p - q\sqrt{5}$

12. To judge the preparation of student's class IX on topic " Number System" Mathematics teachers write two numbers on black board (as shown in figure), and asks some questions about the members, which are following, then answer the question:



- Write the decimal form of $\frac{2}{11}$
- Write the p/q form of $0.3\bar{8}$.
- Write the decimal expansion of $\frac{2}{11}$.
- If p/q form of $0.3\bar{8}$ is m/n, then find the value of (m + n)

13. ACTIVITY

For odd roll numbers eg 1,3,5, ... etc

- To construct a square-root spiral.
- To obtain the mirror image of a given geometrical figure with respect to x-axis and y-axis.

For even roll numbers eg 2,4,6, ... etc

- To represent some irrational numbers on the number line. (Represent $\sqrt{3}$, $\sqrt{5}$, $\sqrt{9.1}$ & $\sqrt{8.5}$ on number line.
- To find the values of abscissae and ordinates of various points given in a cartesian plane.

Science:-

Physics – Prepare a working model /Chart on:

- Newton`s cradle **(R.No.1-12)**
- Action –Reaction law**(R.No.13-24)**
- Hydraulic lift **(R.No.25-36)**
- Reflection of sound**(R.No.37 onwards)**

Chemistry –Make a chart/A4 size paper on:

- Elements name till 20 which include Symbols(like ${}^7\text{N}^{14}$), Atomic mass, Valency.**(R.No.1-12)**
- Five different separation technique with diagram and specify what is the nature of solute and solvent in term of Solublity,size and boiling point.**(R.No.13-24)**
- Prepare a handmade molecular model kit(Create 3D model using clay of H_2O , CO_2 , NH_3 , O_2 , CH_4)**(R.No.25-36)**
- Make a colourful poster on chemistry safety rules poster(Lab safety, Chemical handling, First aid precautions) **(R.No.37 onwards)**

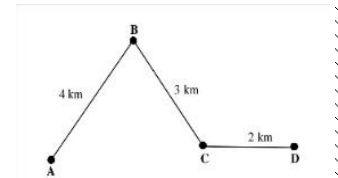
Biology-Make a chart/model on:

- a.Plant Cell and Animal Cell(R.No.1-12)
- b.Showing mitosis and meiosis(R.No.13-24)
- c.Types of Tissues(R.No.25-36)
- d.Endomembrane System(R.No.37 onwards)

Common Homework(To be done in Fair notebooks)

Physics

1. A boy starts from his house and travels 5 km to reach the market. After purchasing his book, he returns to his house. What is the magnitude of displacement of the boy?
2. The figure given shows the path taken by a boy during a walk. Find the total distance covered by the boy.
3. A body is moving along a circular path of radius R. What will be the distance and magnitude of Displacement of the body when it completes half-a-revolution ?
4. Two trains A and B cover 120 km and 180 km in 3 hours, and 4 hours respectively. Which is moving Faster, A or B? Solve it.
5. A train moving with uniform speed covers a distance of 120 m in 2 s. Calculate the speed of the train and the time it will take to cover 240 m.
6. Find the distance travelled by a body in 5 minutes if it travels with a uniform speed of 20 m/s.
7. A body rises vertically up to height of 125 metres in 5 seconds and then returns back to the point of its throw. Find the total displacement and average velocity of the body.
8. The maximum speed of a train is 90 km/h. It takes 10 hours to cover a distance of 500 km. Find the ratio of its average speed to maximum speed?
9. A car start from rest and acquire a velocity of 54 km/h in 2 sec. Find a. acceleration b. Distance travelled by car (assume motion of car is uniform)?
10. An object dropped from a cliff falls with a constant acceleration of 10 m/s². Find its speed 5 s after it was dropped.
11. Note down expt. No. 5.1,5.2, 6 in the lab manual. (Except theory and procedure).



Chemistry

1. Explain what a solution is and identify its two main components with an example.
2. Define solubility and explain how temperature affects the solubility of solid solutes and gases in liquids.
3. Describe the Tyndall Effect and provide two everyday examples where this phenomenon can be observed.
4. What is the difference between a homogeneous mixture and a heterogeneous mixture? Give one example of each.
5. Explain the process of crystallization and mention its practical applications.
6. Compare and contrast solutions, colloids, and suspensions based on their particle size, visibility, settling behaviour, and the Tyndall Effect.
7. Analyze the three methods of expressing concentration of a solution, explaining when each method is most appropriately used with suitable examples.
8. Evaluate the importance of separation techniques in industrial processes by discussing distillation and coagulation with their practical applications.
9. Note down expt. No. 1.1, 1.2,1.3 and 2 in the lab manual. (Except theory and procedure).

Biology

1. A person with swollen gums rinses his mouth with lukewarm salt water and swelling of his gums decreases. Why?

2. Ritika observed onion peel cells in the lab and could view the cell wall, cytoplasm and nucleus clearly. Suddenly her friend spilled a few drops of salty water on the slide having onion peel cells. She observes some changes in the cells after sometime
- What changes would have been observed by Ritika?
 - Name the process that caused the changes in the cells.
 - Would there be similar changes observed, if she had prepared a slide of cheek cells?
3. If you are provided with some vegetables to cook, you generally add salt into the vegetables during the cooking process.
- What happens to the vegetables after adding salt?
 - Which mechanism is responsible for the changes? Explain.
4. Why does the skin of your mother's fingers shrink when she washes clothes for a long time?
- What is responsible for these changes?
 - Explain the process in brief.
5. Note down expt. No. 10.1, 10.2.11.1 & 11.2 in the lab manual. (Except theory and procedure).

Social Science:

Instructions:-

- * Do your work in proper manner.
- * Project should be hand written. (No print out accepted)
- * Pictures, Map, data, some examples will use in support of projects.
- * Project should cover in 7 to 8 pages. (Title page, Acknowledgement, Contents and Bibliography)

Roll No.	Homework
1-12	<p>History- Development of human life from Palaeolithic Age to Modern Age -Timeline with Pictures</p> <p>Economics- Home budget for one month June 2026 Identify the reason for increase in budget.</p> <p>Geography- Write about actions of Landslides and Dust storm</p>
13-24	<p>History- Old trade route map with reference to silk route and land route with World map</p> <p>Economics- Home budget for one month June 2026 Identify the reason for increase in budget.</p> <p>Geography- Write about actions of Avalanches and Dust storm</p>
25-36	<p>History- Imagine you have time-travelled to Palaeolithic Age for a month, describe the food habits, where you spent your nights and what you did for entertainment.</p> <p>Economics</p> <p>Geography- Write about actions of Landslides and Glacial Lake Outburst Flood</p>
37 Onwards	<p>History- Journey of Human beings from Hunters and Gatherers to Food Ordering (Through Online Apps)</p> <p>Economics- Home budget for one month June 2026 Identify the reason for increase in budget.</p> <p>Geography- Write about actions of Wind, River and Sea waves</p>
Common Homework	
Political Science:-	Democracy is the best form of government. Points to mention-Meaning of Democracy, Features of Democracy, Types of Democracy, Other Forms of government, Challenges to democracy, Some examples of democratic countries.

हिंदी:-

निर्देश-सभी कार्य फाइल में करना है -

समूह 'क' (1-12)

प्रश्न-1 'पर्यावरण संरक्षण' विषय पर स्लोगन, चित्र व कटिंग लगाकर एक छोटा सा प्रोजेक्ट बनाइए।

प्रश्न-2 तनाव मुक्त रहने के संबंध में मनोचिकित्सक और अवसाद रोगी के बीच हुए संवाद को लिखिए।

समूह 'ख' (13-24)

प्रश्न-1 किसी पर्यटन स्थल, बैंक, पोस्ट आफिस, या बाजार आदि में से किसी एक का अपनी कल्पना शक्ति के आधार पर चित्र वर्णन कीजिए।

प्रश्न-2 मानसिक अवसाद क्या है? हम इससे कैसे उबर सकते हैं? इस संबंध में अपने छोटे भाई को पत्र लिखिए ताकि वह तनाव मुक्त रहे।

समूह -ग (25-36)

प्रश्न-1 मानव अंगों पर आधारित 10 मुहावरे लिखिए।

प्रश्न-2 एक प्रेरक कविता A4 रंगीन पेपर पर लिखें और याद करें।

समूह -घ (37-48)

प्रश्न-1 'दो बैलों की कथा' शीर्षक का एक सुंदर सा माइंड मैप तैयार कीजिए।

प्रश्न-2 उत्तराखंड के किसी तीर्थ जैसे हरिद्वार, केदारनाथ, बद्रीनाथ, यमुनोत्री, गंगोत्री आदि में से किसी एक यात्रा का वर्णन अपने शब्दों में लिखिए।

संस्कृत

समूह 1

क -छात्र अपने घर या परिवेश में प्रयोग होने वाली किन्हीं 20 वस्तुओं (जैसे फल फूल सब्जी बर्तन फर्नीचर आदि) के चित्र चिपक कर उनके नाम संस्कृत में लिखें।

कौशल: शब्दावली वृद्धि और कलात्मकता।

ख -सूक्ति लेखनम्:-संस्कृत में किन्हीं पांच प्रसिद्ध सूक्तियां (जैसे सत्यमेव जयते, विद्या ददाति विनयम् को सुंदर अक्षरों में चार्ट पेपर पर लिखकर उनका अर्थ भी लिखें।

कौशल नैतिक मूल्यों का ज्ञान और हस्तरेखा न।

ग-चित्र वर्णन:-अपनी पसंद से किसी भी चित्र (जैसे विद्यालय उद्यान या त्योहार आदि) का चित्र चिपकाकर उसके बारे में संस्कृत में पांच वाक्य लिखें।

कौशल:-वाक्य निर्माण तथा रचनात्मकता।

घ-10 दिवसीय 'संस्कृत संभाषण शिविर' के लिए एक सुंदर विज्ञापन तैयार कीजिए।

समूह -2

क-पर्यावरण संरक्षण या जल बचाओ विषय पर एक आकर्षक पोस्टर बनाएं पोस्टर पर संस्कृत में एक प्रभावशाली नारा लिखें।

कौशल:- सामाजिक जागरुकता और कलात्मकता अभिव्यक्ति।

ख-संस्कृत पत्रिका-चार-पांच प्रश्नों की एक छोटी पत्रिका बनाएं जिसमें एक छोटी संस्कृत कहानी पहेलियां और संस्कृत में कुछ चुटकुले लिखें।

ग-मम परिचय: चार्ट प्रस्तुति

छात्र अपना अपने परिवार और अपने विद्यालय का संस्कृत में परिचय देते हुए 6-7 वाक्य का एक सुंदर चार्ट तैयार करें।

कौशल:- वाक्य संरचना और स्वयं के अभिव्यक्ति।

घ-छात्र अपने घर या परिवेश में प्रयोग होने वाली किन्हीं 20 वस्तुओं (जैसे फल फूल सब्जी बर्तन फर्नीचर आदि) के चित्र चिपक कर उनके नाम संस्कृत में लिखें।

कौशल: शब्दावली वृद्धि और कलात्मकता।

Artificial Intelligence:-

1. Summer break is not only a time for fun and relaxation, but also an opportunity for personal growth. By practicing self-management, we can learn how to use our time wisely, stay healthy, control our emotions, and improve our habits. Prepare your daily routine on an A4 sheet, describing all the activities you do and the time spent on each activity for effective self-management.

2. Communication is an important life skill that helps us express our thoughts, feelings, and ideas clearly. Good communication builds confidence, strengthens relationships, and helps us succeed in school and daily life. Make a poster showing the importance of good communication skills using pictures, quotes, and slogans.

