

O.P Jindal School, Savitri Nagar, Tamnar
Summer Holiday Homework 2024-25
Class - IX

S.No	Subject	Topic
1.	English	<p>Do the given Homework in A4 size paper and submit.</p> <p>(1) Read the Newspaper (English) daily and write only one news article in 20-30 words under the given headings - National/ International - Science, Literature, Sports, Glamour, Business.</p> <p>(2) Read the Editorial column in a Newspaper in English (daily).</p> <p>(3) Find and write a minimum of 40 Verbs & 40 Adjectives, and their meaning in your Homework Assignment File.</p> <p>(4) Prepare a write-up in 100 to 150 words on how did you spend your Summer Vacation.</p> <p>(5) Complete the exercises of WORDS AND EXPRESSIONS – I (WORKBOOK FOR CLASS IX) – Units 1 to 5</p>
2.	Hindi	<p>1 कवि रसखान और कबीरदास जी की कविताओं का वाचन करके वीडियो बनाकर मेल कीजिए।</p> <p>2 ग्रीष्मावकाश में की गई यात्रा का विवरण देते हुए उन स्थलों का वीडियो मेल कीजिए।</p> <p>अथवा</p> <p>तिब्बत समाज की सांस्कृतिक झाँकी (वेशभूषा, खानपान, नृत्य, दर्शनीय स्थल आदि का) वीडियो के रूप में मेल कीजिए।</p> <p>3 दिए गए फॉरमेट में अपना पोर्टफोलियो बनाकर मेल कीजिए।</p> <p>क अनुक्रमणिका ख छात्र/छात्रा का परिचय ग रुचि/अरुचि घ आत्म जीवन परिचय ङ पारिवारिक सदस्य च मेरा सबसे अच्छा मित्र छ मेरे आदर्श व्यक्ति ज मेरे जीवन का लक्ष्य</p>
3.	Sanskrit	<p>1) सं. व्या. पाठ - 6, (शब्दरूप - प्रकरणम्) बालकः, कविः, साधुः, पितृ, अस्मद् और (किम् शब्दरूप, तीनों लिंगों में)</p> <p>2) सं. व्या. पाठ - 7, (धातुरूप - प्रकरणम्) पठ्, गम्, वद् , भू, क्रीड् , नी , दृश्, अस्, और सेव् धातु (सभी धातुओं को पाँचों लकारों में)</p> <p>3) सं. व्या. पाठ - 10 , (संख्याः ज्ञानम्) (1 - 100) कंठस्थ करना है।</p> <p># उपरोक्त सभी कार्य संस्कृत कॉपी में लिखकर कंठस्थ करना है।</p> <p>4) मणिका पाठ्यपुस्तक से पाठ - 2 (पाठ्यम्) के श्लोकों को कंठस्थ करना है।</p> <p>5) अभ्यासार्थ- अपठित गद्यांशः , पत्रलेखनम् , चित्रवर्णनम् और अनुवाद के लिए कार्यपत्रक दिया जाएगा।</p>

4.	Maths	<p>1) Solve daily 5 questions of maths in a separate notebook from the chapters given below from the book of your previous class.</p> <p>(i) Exponents and Powers (ii) Linear equations in one variable (iii) Algebraic Expressions (iv) Factorisations</p> <p>And questions of 'Number System' from your present book.</p> <p>2) Make a project on types of numbers on the topic Number System.</p>
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5.	Science	<p>PHYSICS..</p> <p>Q1. Write the condition when distance and displacement are equal?</p> <p>Q2. In the hare-tortoise race, the hare ran for 2 min at a speed of 7.5 km/h, slept for 56 min and again ran for 2 min at a speed of 7.5 km/h. Find the average speed of the hare in the race.</p> <p>Q3 A bus moves at a uniform speed v_1 for some time and then with a uniform speed 2. The distance-time table is given below. Plot the corresponding distance-time graph and answer the following questions.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Time(min)</th> <th style="text-align: center;">Distance(Km)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">0</td><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">20</td><td style="text-align: center;">20</td></tr> <tr><td style="text-align: center;">40</td><td style="text-align: center;">40</td></tr> <tr><td style="text-align: center;">60</td><td style="text-align: center;">65</td></tr> <tr><td style="text-align: center;">80</td><td style="text-align: center;">95</td></tr> <tr><td style="text-align: center;">100</td><td style="text-align: center;">125</td></tr> <tr><td style="text-align: center;">120</td><td style="text-align: center;">155</td></tr> </tbody> </table> <p>(a) Find the values of V_1 and V_2. (b) When did the bus change its speed? (c) What is the distance covered in the first hour? (d) What is the distance covered in the second hour? (e) What is average speed for the complete journey?</p> <p>Q4. A body moving in a circle of radius 'r' covers $3/4^{\text{th}}$ of the circle. Find the ratio of distance to displacement.</p> <p>Q5. Give examples to explain that motion is relative.</p> <p>CHEMISTRY..</p> <p>Q6. In an experimental activity, crushed ice was taken in a beaker. A thermometer is fitted in such a way that its bulb was thoroughly surrounded by ice. The beaker is now slowly heated and temperature was regularly noted. Temperature rises gradually as the heating is continued and becomes constant when ice starts changing into liquid.</p> <p>(i) What name is associated with conversion of ice into water? (ii) What specific name is given to the constant temperature? (iii) What is the heat added to the system at constant temperature called? (iv) Where does the heat energy go when the temperature does not rise?</p> <p>Q7. Temperature can be expressed in three important scales. These are Celsius</p>	Time(min)	Distance(Km)	0	0	20	20	40	40	60	65	80	95	100	125	120	155
Time(min)	Distance(Km)																	
0	0																	
20	20																	
40	40																	
60	65																	
80	95																	
100	125																	
120	155																	

		<p>scale ($^{\circ}\text{C}$), Fahrenheit scale ($^{\circ}\text{F}$) and Kelvin scale (K). Kelvin scale is often used to express temperature in scientific data. Temperature in any one scale can be easily converted into another scale by using the following equations. If x is the temperature on Celsius scale, then</p> <p style="text-align: center;">$x^{\circ}\text{C} = (x+273) \text{ K}$ and $x^{\circ}\text{C} = [(9/5)x + 32] \text{ F}$</p> <p>Answer the following questions using above information</p> <p>(i) What is the boiling point of water in Kelvin scale?</p> <p>(ii) If $x^{\circ}\text{C} = x^{\circ}\text{F}$, what is the value of x?</p> <p>(iii) What is the Freezing point of water in Celsius scale?</p> <p>(iv) If temperature of certain oil is 65°C, what is the corresponding temperature on Kelvin scale?</p> <p>Q8. Convert the following temperature into Kelvin scale: (a) -40°C, 289°C, 420°C, 170°C, -420°C.</p> <p>Q9. In certain investigatory project 150 ml of water is taken in each of the four beakers A, B, C and D. Beaker A and B are maintained at temperature 25°C while C and D are maintained at temperature 65°C. Four crystals of copper sulphate of approximately same mass (say 2g) are taken and two of them are ground into powder form. Now, crystals are added in beaker A and C while powdered form of the salt are added in beaker B and D respectively.</p> <p>Mark the correct answer in each of the following questions:</p> <p>i) In which beaker the intermixing will be the quickest? ii) Rate of intermixing will be Same in which container? iii) What is the colour of solution after intermixing? iv) What is phenomenon responsible for intermixing is called?</p> <p>Q10. Prepare a model or chart on different states of matter.</p> <p>BIOLOGY..</p> <p>Q11. Describe the microscopic structure of the cell.</p> <p>Q12. What are the functional regions of a cell?</p> <p>Q13. What is Microscope ?</p> <p>Q14. Define diffusion.</p> <p>Q15. "A cell is a building unit of an organism". Explain</p>
6.	Social Science	<p>History:-</p> <ul style="list-style-type: none"> • Make a PowerPoint Presentation (at least 10 slides) on:- <ul style="list-style-type: none"> a) Storming of Bastille (RN 1 to 10) b) Life of Louis XVI (RN 11 to 20) c) French Society before Revolution (RN 21 to 30) d) Subsistence Crisis in France and France becoming a constitutional monarchy (RN 31 and above) <p>Political Science:-</p>

		<p>•Make a project on "Differences between democratic and non-democratic countries by taking two examples of democratic and non democratic countries". Go through the instructions below to make your project presentable and attractive.</p> <ol style="list-style-type: none"> 1) Make a project on a file with at least 20 pages 2) Front Page 3) Acknowledgement 4) Contents 5) Introduction of the topic. 6) Your Project (All the things which you will write in your project). 7) Conclusion 8) Bibliography (Websites and sources which you have used to make your project) <p>Other important points to follow:-</p> <ul style="list-style-type: none"> • You can use any kind of file (stick file or spiral binded file). • The pages in the file should be one side ruled and one side plain. (Write on the ruled page and paste or draw images on the plain page). • Handwriting should be neat and clean in your file. • Draw or paste atleast one picture related to a particular sub topic. • Borders must be present in all the pages. You can also decorate your borders to make your project look attractive. • Mention page number on each page. • You can use any pen for writing and decorating your project except gel pen and normal Red and Green pen. • Lastly, decorate your project by using your creativity skills. <p>*_Geography_*</p> <p>Map pointing - Label the following on the political map of India:-</p> <ol style="list-style-type: none"> 1. National park - Manas, Kaziranga, Gir, Simlipal, Corbett, Dudhwa, RajaJi, Dhachingam, Kanha. 2. Bird Sanctuary - Periyar, Sariska, Chandraprabha. 3. Five rivers of India 4. Five mountain ranges of India 5. Note down the minimum and maximum temperature of 15 days during the summer holiday of your city.(Calculate the range of temperature & average temperature and draw a temperature bar graph of 15 days) 6. Show on the out map of India - Different types of vegetation found in our country. <p>On out line map of India mark the following:-</p> <ol style="list-style-type: none"> i) Mark the neighboring countries of India. ii) Mark the Radcliffe Line. iii) Mark the McMahon Line.
7.	<p>A.I (Artificial Intelligence) - 417</p>	<p>Exploring career paths in AI.</p> <ul style="list-style-type: none"> ➤ What is Artificial Intelligence? ➤ What is the role of AI in your career? ➤ Write the name of some AI Tools? <p>Search more about Career options in AI with the help of internet, newspaper and computer magazines. Make a PowerPoint presentation on the topic – Exploring career paths in AI. Set a beautiful background. Apply nice formatting and animation effects on it.</p>

