

ENGLISH	<p>Homework of class 9 English ( 16-5-2025)</p> <p>Prepare an interdisciplinary art integrated project on India's major geographical features. For each feature, describe the region, explain its importance in the lives of the people living there and mention the languages spoken in that region and also include one folk tale .</p> <p>Include one example of each of the following.</p> <p>Mountains – Himalayas, Western Ghats, etc.</p> <p>Rivers – Ganga, Yamuna, Krishna, Kaveri, Godavari, etc.</p> <p>Deserts – Thar Desert, Rann of Kutch, etc.</p> <p>Valleys – Kangra Valley, Nubra Valley, etc.</p> <p>Islands – Andaman and Nicobar Islands, Lakshadweep, etc.</p> <p>Plateaus – Deccan, Malwa, Meghalaya, etc</p> <p>Note- Include some pictures and prepare the whole project including a cover page and index in file pages and after preparing make a short video sharing your experience in its completion, challenges faced and your overall feelings about it in around 2-3 mts uploading it in your official school mail ID .</p>
HINDI	<p>कक्षा - IX</p> <p>ग्रीष्मकालीन अवकाश कार्य -</p> <p>1. 'स्वदेश प्रेम' और 'समय का सदुपयोग' दोनों विषयों पर अनुच्छेद लेखन कीजिए ।</p> <p>2. अनौपचारिक पत्र - आपने हिन्दी भाषण प्रतियोगिता में प्रथम स्थान प्राप्त किया है । अपनी खुशी को व्यक्त करते हुए अपने बड़े भाई को पत्र लिखिए ।</p> <p>3. राम और श्याम प्रातःकालीन सैर के लिए गए हुए हैं । उन दोनों के मध्य हुए संवाद को लिखिए ।</p>
SANSKRIT	<p>Class 9th Sanskrit Holiday Homework</p> <p>1. किसी भी पाठ्यपुस्तिका से कोई पाँच श्लोक अपनी उत्तरपुस्तिका में लिखो और याद करो।</p> <p>2. अपनी उत्तरपुस्तिका में कोई पाँच चित्र चिपकाकर संस्कृत में 5-5 वाक्य लिखो ।</p>

MATHEMATICS

Part A – Coordinate Explorer (Basic Concepts)

1. Quick Concept Challenge

Answer the following in your own words with examples wherever possible:

a) What is a coordinate plane?

b) Define the following:

- x-axis
- y-axis
- origin
- quadrant

c) Write the coordinates of:

- The origin
- Any point on the x-axis
- Any point on the y-axis

d) Identify the quadrant of these mystery points:

Point    Quadrant

(4, 5)    \_\_\_\_\_

(-3, 7)    \_\_\_\_\_

(-6, -2)    \_\_\_\_\_

(8, -1)    \_\_\_\_\_

Create a mnemonic or trick to remember the signs in all four quadrants.

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Part B – Graphing Art Activity

2. Plot & Discover

Plot the following points on graph paper using different colours:

- A (3, 4)
- B (-5, 2)
- C (-4, -3)
- D (6, -2)
- E (0, 5)
- F (-7, 0)

After plotting:

1. Write the quadrant of each point.
2. Join the points in alphabetical order. What shape/design do you observe?
3. Which point lies on the y-axis?
4. Which point lies on the x-axis?
5. Which point is closest to the origin? Explain how you found it.

Decorate your graph and give it a title such as “*Coordinate Galaxy*” or “*Math Map Adventure.*”

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Part C – Create Your Own Coordinates

3. Coordinate Builder Challenge

	<p>Draw your own coordinate plane and locate the following:</p> <ol style="list-style-type: none"> <li>1. A point 4 units right and 3 units up from the origin.</li> <li>2. A point 5 units left and 2 units down from the origin.</li> <li>3. A point on the y-axis, 6 units above the origin.</li> <li>4. A point on the x-axis, 7 units left from the origin.</li> </ol> <p>Fun Task: Create 2 more points of your own and challenge a family member or friend to identify their coordinates.</p>
	<p>Part D – Real-Life Math Project “Map My Home” Activity Draw a 2D floor map of your house using coordinates. Instructions:</p> <ul style="list-style-type: none"> <li>• Mark rooms using coordinate points.</li> <li>• Label important locations: <ul style="list-style-type: none"> <li>○ Main door</li> <li>○ Kitchen</li> <li>○ Bedroom</li> <li>○ Study area</li> <li>○ Balcony/windows</li> </ul> </li> <li>• Use graph paper if possible.</li> <li>• Add a compass direction (North, South, East, West).</li> </ul> <p>Challenge Level Up: Create a treasure hunt clue using coordinates such as: “Start at (2, 3) and move to (-4, 5).” Best maps will be displayed in class!</p>
	<p>Part E – HOTS Corner (Think Like a Mathematician) Answer thoughtfully:</p> <ol style="list-style-type: none"> <li>1. Can a point lie in two quadrants at the same time? Why or why not?</li> <li>2. Explain why the point (0, 5) does not belong to any quadrant.</li> <li>3. A point is 6 units from the y-axis and 4 units above the x-axis. Write all possible coordinates.</li> </ol> <p>Brain Booster: Can you think of a real-life situation where coordinates are used?</p>
<p>SOC.SC History&amp;civics</p>	<p>Section 1: Stone Age Tools Activity A . Prepare a Tool Comparison Chart in which you need to Draw or paste pictures of Palaeolithic tools and Mesolithic tools. In this format I. Tools Type   II. Example   III. Use Or Activity B: Timeline Drawing</p>

	<p>Make a timeline showing Palaeolithic → Mesolithic → Neolithic ages with sketches of tools.</p> <p>Section 2: Neolithic Revolution</p> <p>Activity A: Farming Diary</p> <p>Interview a farmer or elder. Write a diary entry comparing ancient farming with modern farming.</p> <p>Or</p> <p>Activity B: Food Chart</p> <p>Paste pictures of foods first domesticated in the Neolithic age (wheat, rice, barley, etc.).</p> <p>Section 3: Democracy</p> <p>Activity A: Poster Making</p> <p>Design a poster in notebook showing why representative democracy is more practical than direct democracy.</p> <p>Activity B : Survey Project</p> <p>Survey 20 people in your neighbourhoods. Ask: “Which democracy system do you prefer and why?” Present results in 100 words note.</p>
<p>Geography &amp; Economics</p>	<p>Class ix</p> <p>Select one physical feature on which area where you are living.</p> <p>Page no 1. Introduction of student.</p> <p>Page 2. Certificate</p> <p>3. Index</p> <p>4. Introduction of the topic (know your locality)</p> <p>5. Topics given below must be covered</p> <p>A. Explain the physical features.</p> <p>B. History of that place</p> <p>C. Climatic condition</p> <p>D. Occupational structure</p> <p>E. Formation of local government.</p> <p>F. Status of development.</p> <p>(Each topic must be explained at least 2 pages.</p> <p>6. Conclusion of the topic</p> <p>7. Bibliography.</p> <p>Entire project must be on practical file.</p> <p>Project must be handwritten.</p> <p>Only blue and black ink must be used.</p> <p>As per the requirement, pics must be pasted.</p> <p>Make a short video of your locality with proper commentary and send it to <a href="mailto:sanghmitra030261@birlaschoolpilani.edu.in">sanghmitra030261@birlaschoolpilani.edu.in</a></p>

A.I.	<p><b>Class 9 – Green vs Non-Green Garbage Classifier using Google Teachable Machine</b></p> <p><b>Project Title:</b> <i>AI-Based Waste Segregation System</i></p> <p>Students will create an AI model using Google Teachable Machine (<a href="https://teachablemachine.withgoogle.com/">https://teachablemachine.withgoogle.com/</a>) to classify garbage into green (biodegradable) and non-green (non-biodegradable) categories.</p> <p><b>Skills Covered</b></p> <ul style="list-style-type: none"> <li>• Machine learning fundamentals</li> <li>• Data collection and training</li> <li>• AI model testing</li> <li>• Environmental awareness</li> <li>• Real-world problem solving</li> </ul> <p><b>Example Ideas</b></p> <ul style="list-style-type: none"> <li>• Green Garbage: leaves, vegetable peels, paper</li> <li>• Non-Green Garbage: plastic bottles, wrappers, cans</li> <li>• Create a live camera-based detection system</li> <li>• Display messages like “Use Green Bin” or “Use Blue Bin”</li> </ul> <p><b>Learning Outcome</b></p> <p>Students will understand the practical use of Artificial Intelligence in waste management and sustainability.</p>
PAINTING	<p>Class 9<sup>th</sup> Painting</p> <p>Make five canvas size 12-inch X 12 inch.</p> <p>Vande Mataram: 150 Years of National Pride</p> <p>150 Years of Vande Mataram – The Soul of India Lives On</p> <p>Vande Mataram: A Legacy of Freedom and Unity</p> <p>Celebrating 150 Years of India’s Eternal Anthem</p> <p>Vande Mataram – From Freedom Struggle to Forever</p> <p>150 Years Strong: Vande Mataram Echoes Still</p> <p>Vande Mataram: The Heartbeat of Bharat</p> <p>A Song that United Millions – 150 Years of Vande Mataram</p> <p>Vande Mataram: Pride, Power, Patriotism</p> <p>150 Years of Inspiration – Vande Mataram Forever</p> <p>Vande Mataram: The Voice of Mother India</p> <p>150 Years of Unity in Every Word</p> <p>Vande Mataram – Our Identity, Our Strength</p> <p>A Timeless Tribute to Motherland – 150 Years of Vande Mataram</p> <p>Vande Mataram: Igniting Patriotism Since 1876</p> <p>150 Years of Devotion to Mother India</p> <p>Vande Mataram – Then, Now, Always</p> <p>Echoes of Freedom: 150 Years of Vande Mataram</p> <p>Vande Mataram: A Song that Built a Nation</p> <p>150 Years of Pride, 150 Years of Vande Mataram</p> <p>• वंदे मातरम्: 150 वर्षों का गौरव गान</p> <p>• 150 साल का सफर – वंदे मातरम् अमर</p> <p>• वंदे मातरम्: देशभक्ति की अमर पहचान</p>

	<ul style="list-style-type: none"> <li>· 150 वर्षों से गूंजता भारत का स्वाभिमान</li> <li>· वंदे मातरम् – आज भी, कल भी, हमेशा</li> <li>· 150 सालों की शान – वंदे मातरम् महान</li> <li>· वंदे मातरम्: हर दिल की आवाज</li> <li>· 150 वर्षों से एकता का प्रतीक</li> <li>· वंदे मातरम् – स्वतंत्रता का प्रेरक गान</li> <li>· 150 साल, एक ही पुकार – वंदे मातरम् बार-बार</li> <li>· वंदे मातरम्: भारत की आत्मा की पुकार</li> <li>· 150 वर्षों की विरासत – वंदे मातरम्</li> <li>· वंदे मातरम् – राष्ट्र प्रेम की पहचान</li> <li>· 150 सालों से देशभक्ति की ज्योति</li> <li>· वंदे मातरम् – हर भारतीय का अभिमान</li> <li>· 150 वर्षों की अमर गाथा</li> <li>· वंदे मातरम् – देश की धड़कन</li> <li>· 150 साल, अनंत प्रेरणा – वंदे मातरम्</li> <li>· वंदे मातरम् – राष्ट्र की शक्ति, जनता की भक्ति</li> <li>· 150 वर्षों का सम्मान – वंदे मातरम् महान</li> </ul>
MUSIC	<p>Class 9<sup>th</sup> Music</p> <p>Learn 3 patriotic and 3 Bhajans in Hindi.</p>