

### Homework for Summer Vacation (2025-26)

## **General Instructions:**

- Activities / Project work should be done as per the instructions.
   Given subject wise. (Use A3/A4 size sheets for activities)
- > Holiday Homework will be assessed as Subject Enrichment Activity (SEA). Make sure that you complete the assigned Holiday Homework and submit it on time.
- > Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- > Holiday Homework should be submitted by 3rd July 2025. It must be labelled properly with the name, class and roll number of the child.
- ► Originality of the work will be appreciated.
- Encourage your ward to converse in English as a regular practice during holidays to enhance communication.

### **NOTICE FOR SUMMER VACATION**

#### (For IX - XII)

- 1: Summer Holidays: 25/05/2025 to 15/06/2025
- 2: School Re- opens: 16/06/2025 (Monday)
- 3: Timing on 16/06/2025: 8:10 am to 12:40 PM
- 4: 1<sup>st</sup> PTM: On 25/05/2025(Sunday)

Timing: 9:00 am to 12:00 noon

5: - Completing Holiday Home work is mandatory for all students.



RADHIKA SR. SECONDARY SCHOOL

Karwal-Majhgawan, Gagaha, Gorakhpur-273411

CBSE Board | Co-educational | English Medium | Nursery- XII

# Class –XII(SCIENCE)

Subject	Contents		
Hindi	<ul> <li>(1) अप्रत्याशित विषयों पर लेखन-</li> <li>(i) कमरे में लगी दीवार घड़ी को देखकर आपके मन में उठने वाले विचारों को आधार बना कर एक लिखिए  </li> <li>(ii) 'दुर्घटना से देर भली' स्लोगन पर एक लेख लिखें  </li> <li>(2) विभिन्न माध्यमों के लिए लेखन' इस विषय पर एक सुंदर तथा सचित्र परियोजना कार्य तैयार करें  </li> <li>Note- ये सभी कार्य A4 आकार के पृष्ठ पर लिख कर पारदर्शी फाइल में रचनात्मकता के साथ संलग्न करें ।</li> </ul>		
English	Read the following Stories/Poems and write about any four.1. About the Writer2. Introduction of the story/poem3. Summary4. Theme/ Message5. Character Analysis6. Literary Devices usedNote: Write any three.1. The Last Lesson2. The Third Level3. Lost Spring4. Deep Water5. My Mother at Sixty Six6. Keeping Quiet3. Lost Spring4. Deep Water		
Mathematics	<ol> <li>Definition of Relation, Type of Relation (Reflexive, Symmetric, Transitive), Equivalence relation, function, Type of functions (One-One, Onto, Many One, into function) on A4 paper.</li> <li>Make chart paper with All formulas of Trigonometric function and Inverse Trigonometric function formula.</li> <li>Check whether the relation R defined in the set {1,2,3,4,5,6} as R={ (a,b):b =a+1} is reflexive, symmetric or transitive.(In H.W.copy)</li> <li>Draw the graph (in H.W. copy )         <ul> <li>(i) Y=Sin-<sup>1</sup>x</li> <li>(ii) Y=Cos x</li> <li>(vi) Y= tan -<sup>1</sup> x</li> </ul> </li> </ol>		
Physics	<ul> <li>(1) Write any 6 activities from physics lab manual book (3 from each section) and write in punch paper file.</li> <li>(2) Derive expression for following and write in your notebook.</li> <li>(i) Vector form of Coulomb's law</li> <li>(ii) Electric field due to charged metallic hollow sphere.</li> <li>(iii) Potential due to a Point change.</li> <li>(iv) Potential energy of a system of two charges.</li> <li>(v) Effect of dielectric slab on Capacitance of a parallel plate capacitor.</li> <li>(3) Solve NCERT BOOK Exercise Question no 1.1 to 1.23 of chapter 1 in your notebook.</li> <li>(4) Solve NCERT BOOK Exercise Question no 1.1 to 1.11 of chapter 2 in your</li> </ul>		
I.P	<ul> <li>Q.1. How can you stay safe on social media?</li> <li>Q.2. What is the minimum age to create an account on most social media platforms?</li> <li>Q.3. What are some disadvantages of social media?</li> <li>Q.4. If social media helps people stay connected, why do some users still feel lonely?</li> <li>Q.5. Should governments have the right to monitor people's social media activity? Why or why not?</li> <li>Note: Make a transparent file and write the holiday homework on A4 size white paper</li> </ul>		
Physical Education	Complete lab manual (Write major game, Sai khelo India fitness test & Yoga) Make first Aid box &Complete notes chapter 1&2.		

	<b>T</b> ( )		
	<ul> <li>i) Complete all work neatly in your chemistry notebook.</li> <li>ii) Diagrams must be labeled and drawn with pencils only.</li> </ul>		
	III) Use internet and textbooks for research-based activities but write in your own		
	worus.		
	a) Define Decult's Levy (b)	State and evaluin Henry's Low with evenue	
	a) Define Raoult's Law. b)	State and explain Henry's Law with examples.	
	2 Numerical Practica		
	2. Numerical Practice:		
	a) Calculate the holding point elevation when 0.5 mel of a non-velatile solute is		
	discolved in 1 kg of water (Kb = 0.52 K kg/mol)		
	$\mathbf{D}_{\text{res}} = \mathbf{A} \mathbf{W}_{\text{res}} - \mathbf{A}_{\text{res}}$		
	Project work:		
	"Green Chemistry in Daily Life"		
	Prepare a 2–3 page report or poster on:		
Chemistry	i) Principles of green chemistry	ii) Examples of eco-friendly reactions	
Chronistry	iii) Role in sustainable development		
	Activity-Based Holiday Homework		
	1. Electrochemical Cell Model (Activity)		
	<ul> <li>Objective: Construct a simple electrochemical cell using lemon, copper, and zinc. Material: Lemon, copper coin, zinc nail, wires, LED. Task:</li> <li>Build the cell and make the LED glow. Draw a neat labeled diagram. Explain the working of the cell and write redox reactions.</li> <li>2. Natural pH Indicator Test Objective: Identify acidic or basic nature of household items using red cabbage extract. Material: Red cabbage, vinegar, lemon juice, baking soda, detergent. Task: Test and record color changes. Create an observation table.</li> </ul>		
	Conclude the pH range of each item.		
	1. Draw well labelled diagram of typical a	anatropus ovule in classwork copy	
	2. Draw a well labelled diagram of ma	ture embryo sac in classwork copy.	
	3. Solve NCERT exemplar and previous year questions of sexual reproduction in		
Dielegy	flowering plant and human reproduction in class work copy.		
Biology	4. Draw a well labelled diagram of.		
	a. Structure of mature sperm b.	Section of ovary,	
	c. Human foetus within uterus d.	Sectional view of male pelvis in class copy.	
	5. Project make 3D model of stages of gr	owing embryo	
	1. Make 5 Nature and object study (Still	Life) in pencil with light and shade from a fixed	
	point of view. Natural forms like flow	ers, plants, vegetables and fruits etc. art to be	
	used.		
	2. Geometrical forms of objects like cube	es, cones, prisms, cylinders and spheres should	
Painting	be used.	· · · ·	
	3. Prepare any one topic of chapter 1 Ra	jasthani school of miniature painting and	
	present in the class. You can bring props, teaching aids or any relevant material to		
	score better in your presentation.		
	, , ,		