

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: 1st 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 – XI-Science

Subject	Contents
Hindi	1. 'जनसंचार' का अर्थ बताते हुए उसके विभिन्न माध्यमों का सचित्र वर्णन कीजिए (फाइल में लिगिए)
	न (लाखर) २ 'नमक का दरोगा' कहानी का पाठ का सारांश अपने शब्दों में लिखिए। (आरोह की
	लिखित उत्तर पुस्तिका में लिखिए)
	A. Read the following Stories/Poems and write about the
	following in H.W copy: (Any Four)
	1. About the Writer
	2. Introduction of the story/poem
	3. Summary4. Theme/ Message
	5. Character Analysis6. Literary Devices used
English	1 Portrait of a Lady 2 A Photograph
	3 The Summer of the Beautiful White Horse
	4 We're Not Afraid to Die: If We
	B Note: Write Any Three in H W conv
	1 Prepare a Chart of Tenses
	2 Write 50 Rules of Subject-Verb Agreement
	3 Watch a movie named ENGLISH WINGLISH
	1. Solve exercise question of biological classification in class work
	CODV.
	2.Solve N.C.E.R.T Exempler problem of living world & biological
	classification cw copy.
Dielesy	3.Write down 20-20 common scientific names of plant & Animal
ыоюду	species in cw copy.
	4. Make a flow chart of plant & Animal viral disease in cw copy.
	5. Make a flow chart on Basidiomycetes, ascomycetes, deutromycetes
	fungus in cw copy.
	Project- Make a 3-D model of Bacteriophage virus.
	Q.1. What are the main functions of a computer?
	Q.2. What is data and what is information?
I.P	Q.3. What is a file and what is a folder?
	Q.4. What is booting?
	Q.5. What is the difference between volatile and non-volatile
	memory?
	Note: Make a transparent file and write the holiday homework on A4
	size white paper.

Physical Education	1-Make Yoga file (Introduction of Yoga, procedure, it's benefits and
	contradiction)
	2-Make first Aid box
	3-Complete notes chapter 1&2 and revise. Class test will be held in the
	month of July.
Painting	Make 5 Nature and object study (Still Life) in pencil with light and
	shade from a fixed point of view. Natural forms like flowers, plants,
	vegetables and fruits etc. are to be used.
	Geometrical forms of objects like cubes, cones, prisms, cylinders and
	spheres should be used.
	Prepare any one topic of chapter I Pre-Historic Rock Painting and
	present in the class. You can bring props, teaching aids or any
	relevant material to score better in your presentation.
	Instructions:
	All questions must be altempted in a separate Chemistry holebook.
	Discrement must be drawn and labelled nextly.
	Submission Date: 20 June 2025
	Unit 1: Some Basic Concents of Chemistry
	1 Conceptual Questions: a) Define mole and molar mass
	b) Calculate the number of moles in:
	i 18 g of water ii 44 g of CO_2
	c) What is the empirical and molecular formula of glucose?
Chemistry	2 Numerical Practice:
Chemistry	a) Calculate the percentage composition of elements in H_2SO_4
	b) A sample contains 92 g of CO ₂ . Calculate the number of molecules
	present.
	5. Activity: Make a periodic table model or chart using colored paper.
	Highlight:
	i. Alkali metals (Red) ii. Noble gases (Blue) iii. Halogens (Green)
	"Applications of Chemistry in Modern Life" –
	Prepare a brief report (2–3 pages) or presentation on how chemistry is
	used in: a. Medicine b. Agriculture
	c. Environmental Science d. Food Technology
	From NCERT Book
	Chapter -1 (sets)
Mathematics	Exercise 1.1 Q no. 3,4,5 Exercise 1.2. Q no. 1,2,3,5
	Exercise 1.3. Q no. 3,4,6,7
	Exercise 1.4. Q no. $2,3,4,6,7,8,9,10$ Exercise 1.5. Q no. $1,4,5$
	Chapter -2. (Relations and Functions)
	Exercise 2.1. $Q \text{ no. } 1,2,4,5,6,9$ Exercise 2.2. $Q \text{ no. } 2,4,5,6,7$
	Exercise 2.5. Q no. 1,2,5,4 Drow the graph 1 Modulus function 2 Createst interest function
	Draw the graph 1. Modulus function 2. Greatest integers function.
	Solve the questions in the home work copy.



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Class XI Science

	Solve the following questions in the physics homework copy.
	Conversion of one system of unit into another.
	1-Find the value of 100 J on a system which has 20 cm, 250g and half minute as
	fundamental units of length, mass and time.
	2-Convert a power of one mega watt on a system whose fundamental units are
	10kg, 1 dm and 1 minute.
	3-When one meter, one kg and one minute are taken as fundamental units, the
	magnitude of a force is 36 units. What is the value of this force on cgs system
	B-Checking the correctness of formulae
	4- on the basis of dimensional arguments, rule out the wrong relation for kinetic energy. (i) $\frac{3}{16}$ mv ² (ii) $\frac{1}{2}$ mv ² + ma
	5-Check the correctness of the equation
	$Fs = \frac{1}{2}mv^2 - \frac{1}{2}mu^2$
	6- The rate of flow (V) of a liquid flowing through a pipe of radius r and pressure
Dhysics	gradient (p\l) is given by Poiseuille's equation $V = \pi/8 \text{ pr}^4/\eta l$. Check the
r nysics	dimensional correctness of the relation.
	C-DERIVATION OF FORMULAE:
	7-The critical angular velocity ωc of a cylinder inside another cylinder containing
	a liquid at which turbulence occurs depends on viscosity η , density ρ and
	distance d between walls of the cylinder. Obtain and expression for ωc using
	the method of dimensions.
	8-Expriments show that frequency (n) of a tuning fork depends on length (l) of the
	prong, density (d) and young modulus (Y) of its material. On the basis of
	dimensional analysis, derive an expression for frequency of tuning fork.
	9- Calculate the dimensions of linear momentum and surface tension in terms of
	velocity (v) density ρ and frequency v as fundamental units.
	D-SIGNIFICANT FIGURE AND ROUNDING OFF:
	10- State the number of significant figures in the following : (i) 0.0070200 (ii) $2.72 - 10^4$
	(1) $0.00/0300$ (11) $2./3 \times 10^{-4}$ kg (11) 1.0850 m (1v) $5.09/ \times 10^{-3}$ s
	11-Subtract 3.2 x 10° from 4.7 x 10° with due regard to significant.
	12-Solve with due regard to significant figures: (2.01, 0.2940)(0.090,) (2.51, 1.01)(0.4462,)) 1.567, 0.050, 0.27
	1. (2.91x 0.3842)/0.080 11. (2.51 x 1.81)/0.4463 111. 1.567+0.958-0.27