



SUMMER

HOLIDAY

ASSIGNMENT

(Session 2025-2026)

**CHRIST MEMORIAL SR. SEC. SCHOOL,
BAIRAGARH**

SUMMER HOLIDAY HOMEWORK:- (2025)

CLASS – XII

SUBJECT –ENGLISH

WRITING SKILLS:-

Student will write the topic in their notebooks (word limit 300 – 400 words)

1. The impact of wars on nature.
2. The harmful effects of mobile phones.
3. The importance of “Personality Development in student’s life” .

SPEAKING SKILLS:-

The student will prepare a podcast on any one topic given below-

1. The importance of Physical Fitness in one’s life.
2. How science and computer science are inter-related to each other.
3. The harmful effects of Global Warming.

Note:- Kindly share the video on my personal number.

SUBJECT – PHYSICS

PART – 1

1. PPT presentation on electric field, electric field lines and their applications.
2. PPT presentation on the concept of solid angles, How to find the solid angle in arbitrary surface.

PART – 2

1. Make a project on to study of various image formation in mirror or create a model of a spherical mirror.
2. Write the following practical in your Physics Lab Manual
 - To determine resistivity of two/three wires by plotting graph for potential difference vs current.

- To find resistance of given wire / standard resistor using metre bridge.
- To verify the law of combination (series) of resistance using a metre bridge.
- To convert the given Galvanometer (of known resistance and figure of merit) into an ammeter of electric range and to verify the same.
- To find the frequency of AC main with sonometer.

SUBJECT – BIOLOGY

1. Complete your lab manual and submit it after vacation.
2. Submit your project given after completing it. And also prepare PPT on the discussed topic.
3. Complete notes of the chapter – 13 Ecosystem and submit on first day.
4. Prepare a marking scheme chapter wise for the board preparation, and distribution of marks according to CBSE of BIOLOGY subject.
5. Draw a labelled diagram of DNA molecule and prepare a presentation on it.
6. Explain pleiotropy with a suitable example.

SUBJECT – CHEMISTRY

SOLUTIONS:

Learn the chapter – 1 “solution” and make the notes in your own words.

- State Henry’s Law and its applications.
- Calculate the freezing point of a solution (e.g. glucose in water)
- Explain Raoult’s Law and deviation from it with example.
- Define Osmotic pressure and its role in determining molecular masses of macromolecules.

ELECTRO CHEMISTRY:

Assignment on chapter – 2 (Electrochemistry)

ORGANIC CHEMISTRY

- Prepare 20 name reaction cards.
- Make a table calendar for Cation and Anion detection based on the 5 salts in the syllabus.

INVESTIGATORY PROJECT:

Prepare a rough draft of the investigatory project. Topic should be related to class 12 chemistry syllabus.

SUBJECT – MATHS

Write about –

- Matrices and order of matrices
- Type of matrices
- Operation on matrix
- Transpose of matrix
- Symmetric matrix and skew symmetric matrix.
- Special matrices

Prepare PPT on – Application of matrix

- Graphic and image process.
- Image transformation
- Computer Graphics and Animations.
- Economics and Finance.

Lab Manual Activity-

- To verify that the relation R in the set A of all lines in a plane defined by $R = \{(L, M) : L \perp M\}$ is symmetric but neither reflexive nor transitive.
- To draw the graph of $\sin^{-1} x$ using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about line $y=x$)

SUBJECT – PHYSICAL EDUCATION

PROJECT WORK – Khelo India Fitness Test

Practical – 1(Topic) – Motion Fitness test

- (a) Age group 5 to 8 years (class 1 to 3 students)
- (b) Age group 9 to 19 years(class 4 to 12 students)

(A)

- i. BMI test for body compositions
- ii. Flamingo test for balance.
- iii. Plate taping test for speed and limb agility/Co - ordination

(B)

- i. BMI test
- ii. 50 m Sprint.
- iii. 600 m run or walk
- iv. Sit and Reach test
- v. Abdominal partial curl - up
- vi. Push – up (Boys)/ Modified push – up (Girls)

PRACTICAL – 2 (TOPIC) Yoga and Preventive measure for life style diseases

- i. Obesity – Procedure benefits and contradictions.
- ii. Diabetes - Procedure benefits and contradictions.
- iii. Asthma - Procedure benefits and contradictions.
- iv. Hypertension - Procedure benefits and contradictions.
- v. Back pain - Procedure benefits and contradictions.

PRACTICAL – 3(Topics) Proficiency in games and sports

(Skill of any one game of choice)

Note – All practical work should be in Practical file.

SUBJECT – INFORTATICS PRACTICES

1. Make a power point presentation on Computer Network, Cybercrime and Cyber Security.
2. Define network topologies with example. Write their advantage and Disadvantages
 - a) STAR
 - b) BUS
 - c) TREE
 - d) MESH
3. Make a power point presentation on Application of AI

विषय : हिंदी

प्र १ : हरिवंश राय बच्चन जी का जीवन परिचय, व्यक्तित्व एवं कृतित्व को स्लाइड शो द्वारा प्रस्तुत करें।

प्र २ : भक्तिकाल के कोई भी एक कवि की कोई भी एक रचना का वर्णन सारांश के रूप में कक्षा में प्रस्तुत करें।

प्र ३ : बादलों के आगमन से प्रकृति में होने वाले परिवर्तनों को चित्रों के माध्यम से प्रदर्शित करें। [कापी में]

प्र ४ : तुलसीदास जी द्वारा रचित “ रामचरित मानस “ कोई ३ कांडों का संक्षिप्त वर्णन करें। [कापी में]

प्र ५ : स्त्री अस्मिता की संघर्षपूर्ण आवाज के रूप में नारी सशक्तिकरण पर रचनात्मक लेख लिखें। [कापी में]