

ST. COLUMBUS SCHOOL
DAYAL BAGH, FARIDABAD
CLASS – XI (SCIENCE)
HOLIDAY HOMEWORK(2026-27)

General Instructions:-

Revise the completed syllabus of all the subjects for the Test to be held in July.

SUBJECT – ENGLISH

ASSESSMENT OF LISTENING AND SPEAKING (ALS) PROJECT WORK (Survey/Interview Based)
PROJECT LAYOUT-

- I) Cover Page with title, school details, details of students
- ii) Statement of purpose/ Objective/ Goal
- iii) Certificate of Completion under the guidance of the teacher.
- iv) Action Plan
3-4 lines about the project.
- v) Research Tools and Methodology.
- vi) Supporting Material-AV Aids/ PPT
Introduction of the Project
- vii) Body of the Project
Supporting Material
Questionnaire
Case Study
- vii) REPORT
800-1000 word essay/script/report
- viii) STUDENT REFLECTION
100-150 words paragraph about the experience and learning outcomes
- ix) PHOTOGRAPHS
- x) LIST OF RESOURCES/ BIBLIOGRAPHY

LIST OF TOPICS/THEMES-

1. The Portrait of a Lady

Suggested titles –

Disconnected in the Digital Age: The Changing Meaning of Family Bonds

Generational Gaps and Emotional Distance in Modern Families

The Strength of Silent Love and Care

2. A Photograph

Suggested titles –

Memories in the Age of Social Media

Time, Loss and Human Emotions

Preserving Relationships Through Memories

3. The Voice of the Rain

Suggested titles –

The Earth Speaks: Why Humans Must Listen

Nature's Cycle and Environmental Balance

Understanding the Connection Between Humans and Nature

4. Childhood

Suggested titles –

Growing Up in the Era of Artificial Intelligence

Loss of Innocence in the Modern World

Identity and Self-Discovery Among Teenagers

5. The Summer of the Beautiful White Horse

Suggested titles –

Integrity in a Competitive World

Honesty and Moral Values in Modern Society

Trust and Ethics Among Young People

6. . The Address

Suggested titles –

Refugees, War and Human Suffering

The Emotional Impact of Displacement

Memories, Loss and Identity After Conflict

SUBJECT- PHYSICS

Prepare a Power Point Presentation on "Space Physics" or "Quantum Physics".

Create visual mind maps for chapters:

a) Units and Measurements

b) Motion in a Straight Line

SUBJECT – CHEMISTRY

➤ Prepare your Chemistry Investigatory Project according to the topic assigned to your roll number.

• Topic A: Roll Nos. 1, 9, 17, 25, 33, 41

• Topic B: Roll Nos. 2, 10, 18, 26, 34, 42

• Topic C: Roll Nos. 3, 11, 19, 27, 35, 43

• Topic D: Roll Nos. 4, 12, 20, 28, 36

• Topic E: Roll Nos. 5, 13, 21, 29, 37

• Topic F: Roll Nos. 6, 14, 22, 30, 38

• Topic G: Roll Nos. 7, 15, 23, 31, 39

• Topic H: Roll Nos. 8, 16, 24, 32, 40

(a) Checking the bacterial contamination in drinking water by testing sulphide ion

(b) Study of the methods of purification of water

(c) Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any).

- (d) Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it
- (e) Study the acidity of different samples of tea leaves.
- (f) Determination of the rate of evaporation of different liquids
- (g) Study the effect of acids and bases on the tensile strength of fibers.
- (h) Study of acidity of fruit and vegetable juices.

SUBJECT – MATHEMATICS PREPARE AN ACTIVITY FILE

LIST OF ACTIVITIES :

- 1) To verify distributive law for three given non-empty sets A, B and C, that is
$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$
- 2) To verify relationship between the degree measure and radian measure of an angle.
- 3) To interpret geometrically the meaning of $i = \sqrt{-1}$ and its integral powers.
- 4) To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of $\pi/2$ and π .

SUBJECT :BIOLOGY

Do any one project based on any topic given below

- a. Prepare a herbarium with 10 flowering plants.
- b. Make a picture project on different types of insects found in your surroundings.

SUBJECT –COMPUTER SCIENCE

- ✓ Prepare a visual mind map on the topic “Number System”.
- ✓ Create a Powerpoint Presentation on “Tokens of Python”

SUBJECT –MUSIC

प्रोजेक्ट

भारतीय शास्त्री संगीत में वाद्य यंत्रों के प्रकार के बारे में लिखें व हर प्रकार के वाद्य यंत्र के 2 उदाहरण दें। साथ ही एक बॉलीवुड गीत का नाम लिखें जो उस वाद्य यंत्र के प्रयोग से प्रचलित है।

SUBJECT –PHYSICAL EDUCATION

Practical 1:- Fitness tests administration. (SAI Khelo India Test)

Practical 2:- Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.

SUMMER VACATIONS WITH A PURPOSE

1. **Build a reading habit:** Read the newspaper daily and note down 5 new words with meanings every day. Read at least two story books (one Hindi, one English) apart from your syllabus. Write a short review of each.
2. **Go green:** Respect flora and fauna. Keep your home and surroundings clean. Plant at least 5 saplings and take care of them.
3. **Be kind to animals:** Keep a bowl of water for birds and stray animals outside your house or in the balcony.
4. **Value food:** Food is precious. Avoid wasting food and learn to take only as much as you can eat.
5. **Share and care:** Donate your old books, notebooks, toys, or clothes to underprivileged children of your locality.
6. **Write daily:** Maintain a diary in both English & Hindi. Write about your daily routine and one new thing you learned each day. This will improve your vocabulary and writing skills.
7. **Stay active:** Spend at least 30 minutes daily playing outdoors, cycling, or doing yoga. Reduce screen time.
8. **Learn a new skill:** Try cooking a simple dish, basic stitching, drawing, or learn a new hobby like origami or gardening.
9. **Family time:** Help your grandparents in using smartphone, teach them to make a video call, or watch an educational movie together once a week.
10. **Be a responsible citizen:** Save electricity and water. Switch off the fans/lights when not in use. Avoid plastic bags.

HAVE A SAFE, PRODUCTIVE AND JOYFUL
SUMMER BREAK!