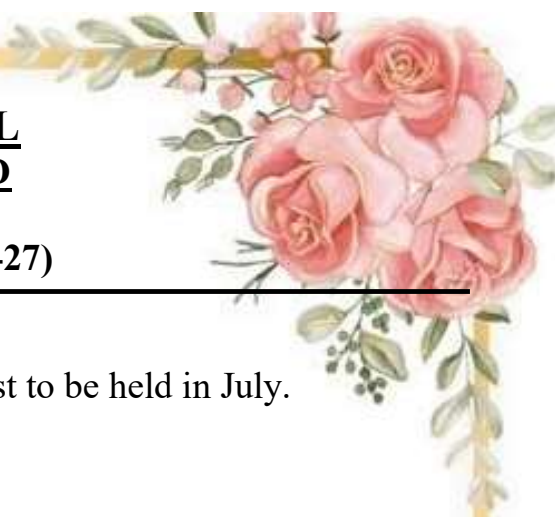


**ST. COLUMBUS SCHOOL**  
**DAYAL BAGH, FARIDABAD**  
**CLASS – XII (SCIENCE)**  
**HOLIDAY HOMEWORK(2026-27)**



**General Instructions:-**

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

**SUBJECT – ENGLISH**

**CREATIVE/PROJECT WORK**

**Part A – Watching/ Listening and Critical Thinking**

1. Watch and Reflect on the following TED Talks:

1. [https://youtu.be/7Lc\\_dIVrg5M?si=IQSaUpCd4cxKkX2f](https://youtu.be/7Lc_dIVrg5M?si=IQSaUpCd4cxKkX2f)
2. [https://youtu.be/vacGRuHDtO0?si=pr4\\_P0mO3sQnKnwy](https://youtu.be/vacGRuHDtO0?si=pr4_P0mO3sQnKnwy)
3. <https://youtu.be/aDG1T0kJnd4?si=JcZPUUWUCr4L2RXi>

**Part B – Speaking Task**

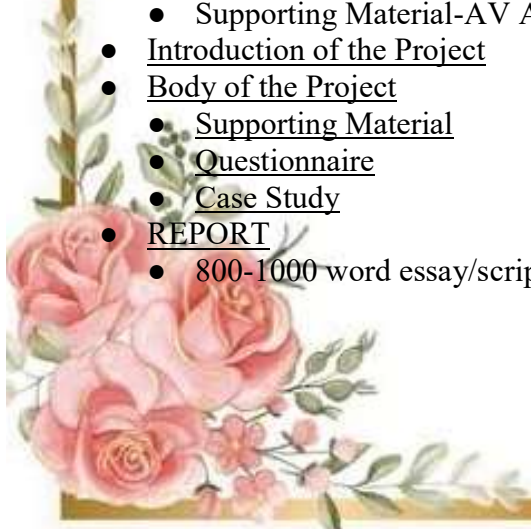
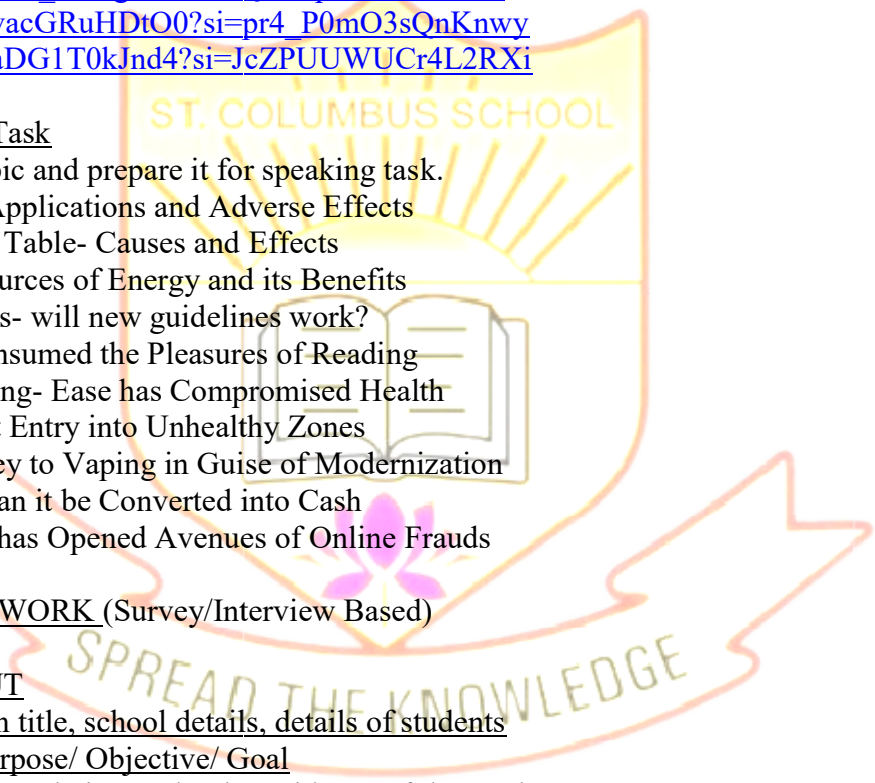
Choose any one topic and prepare it for speaking task.

- a) Smart Phones –Applications and Adverse Effects
- b) Declining Water Table- Causes and Effects
- c) Alternative Resources of Energy and its Benefits
- d) Coaching Centres- will new guidelines work?
- e) Gadgets have consumed the Pleasures of Reading
- f) Driving v/s Cycling- Ease has Compromised Health
- g) Fast Food is Fast Entry into Unhealthy Zones
- h) Youth falling Prey to Vaping in Guise of Modernization
- i) My Trash-How can it be Converted into Cash
- j) Online shopping has Opened Avenues of Online Frauds

**Part C– PROJECT WORK (Survey/Interview Based)**

**PROJECT LAYOUT**

- Cover Page with title, school details, details of students
- Statement of purpose/ Objective/ Goal
- Certificate of Completion under the guidance of the teacher.
- Action Plan
  - 3-4 lines about the project.
  - Research Tools and Methodology.
  - Supporting Material-AV Aids/ PPT
- Introduction of the Project
- Body of the Project
  - Supporting Material
  - Questionnaire
  - Case Study
- REPORT
  - 800-1000 word essay/script/report



- STUDENT REFLECTION

- 100-150 words paragraph about the experience and learning outcomes

- PHOTOGRAPHS

- LIST RESOURCES/ BIBLIOGRAPHY

LIST OF TOPICS/THEMES

I) THE LAST LESSON- FREEDOM OF SPEECH AND EXPRESSION

- Linguistic chauvinism
- Importance of Language
- Globalization of Language
- Franco-Prussian War
- Historical References of Events wherein linguistic identity was threatened/snatched

II) LOST SPRING-LIFE IN A SLUM

- Research and case study of a slum.
- Life of the people in a slum
- Education
- Health and Infrastructure
- Government Initiatives
- Role of youth in the upliftment of the weaker sections of the society
- Comparative Study of Slums
- Slums of yesterday turned to cities of today.

III) DEEP WATER- PHOBIA

- Phobias and fears of people.
- Psychological and emotional impact.
- How to overcome.
- Impact on one's life and society
- Case Study

IV) RATTRAP-THE STUDY OF CRIME AND CRIMINALS

- Circumstances that lead to crime.
- Case Study
- Corrective Measures
- Impact of Criminal Behaviour on Society
- How to bring them into mainstream.
- Attitude of society towards criminals.

V) INDIGO

- Condition of Farmers in Champaran-Then and Now
- Farm Bill Agitation
- Gandhi's Contribution
- Other Political Leaders who brought about a change in the lives of farmers.
- Farmer Protection Laws in India
- Condition of Farmers in India
- Future Prospects-Growth-Suggestions

VI) THE ENEMY- WAR AND PEACE

- To maintain peace we need to go to war.
- Impact of War on Society
- Predicament of War
- Escapism and Depression due to war.
- Stance of the Political Lobby and Civilians.

VII) ON THE FACE OF IT- DISABILITY

- Coping with disability

- Society's attitude towards disability
- Struggles of a disabled person
- Laws for the disabled
- Government policies for the betterment of the disabled.
- Need of inclusion of the disabled in the mainstream society.

### VIII) TOPICS BEYOND BOOKS

- The Population Control Bill is the Right Step Forward.
- Unrestrained Freedom of Speech and Expression is the Pillar of Progressive Society.
- Fulfilment of new woman in India is a Myth.
- Where Humanity Fails, Pandemic Occurs
- Peace is Both a Right and Duty.
- Childhood Vaccinations should be Compulsory.
- People are the Gender They Choose.
- Juveniles should be tried and tested as adults.
- Objectification of women in society.
- There is a need to restore Net Neutrality.
- Legalize the Sale of Human Organs.
- Paperless Currency-the future of the World Economy.
- Sports Scenario of India- Do players or owners make a team?
- Should we determine the team greatness with championship?
- OTT platform vs. Conventional Cinema
- NEP 2020

### SUBJECT- PHYSICS

Prepare a power point presentation on the title "Medical Physics/Radiation Physics ". Minimum 20 slides.

### 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
- 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

### TOPICS:-

- Study of the presence of oxalate ions in guava fruit at different stages of ripening.
- Study of quantity of casein present in different samples of milk.
- Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
- Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)
- Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
- Comparative study of the rate of fermentation of the following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
- Extraction of essential oils present in Saunf (aniseed), Ajwain (carom), Elaichi(cardamom).
- Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, and chilli powder and pepper.
  - Complete your practical file as instructed in the class.

## SUBJECT – MATHEMATICS

Prepare an Activity file

- 1 Local maximum and Local Minimum values of a function.
2. Absolute Maximum and Minimum value of a function.
3. Increasing and decreasing function
4. Continuity and Differentiability.

Revise chapter-7 integration.

## SUBJECT : BIOLOGY

### INVESTIGATORY PROJECT

Prepare a detailed research paper, in Spiral bound file from the topic of your choice.

Complete the Investigatory project with case study and compile it according to the prescribed format.

- Cover page
- Certificate
- Acknowledgment
- Index
- Introduction
- Content (including pictures/graphs/tables/survey report etc.)
- Case Study
- Bibliography

Assessment Criterion- Content,, Research Work, Case study, Viva-voce

It is an individual activity and marks will be awarded in Half yearly and Annual Practical Examination during practical Examination.

### RECORDING OF PRACTICAL WORK

Complete your practical file as instructed in the class.

## SUBJECT –COMPUTER SCIENCE

1. Learn all the definitions from Chapter – Functions, Exception Handling and Relational Database and SQL
2. Complete your Programming File

## SUBJECT –MUSIC

**प्रोजेक्ट:** पाठ्यक्रम में दिए गए रागों में से किसी एक की बंदिश और उस पर आधारित एक बॉलीवुड गीत को प्रैक्टिकल फाइल में लिखें। साथ ही उस राग का परिचय भी दें।

## 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.

**\*To be written in practical file.**

# 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 smart phone, 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!