



# BOSTON PUBLIC SCHOOL



## ASSIGNMENTS FOR SUMMER HOLIDAYS

Grade: 12 (2025-26)

### ENGLISH CORE

#### **ASL activity**

# Kindly make the project in report file only.

Prepare a file on any one of the following topics:

1. Artificial Intelligence: Boon or Bane?
2. Freedom of speech and its limitations
3. Career v/s Passion – what should one choose?
4. Role of media in Shaping Public Opinion
5. Future of Education in a Digital World.

**The format of the file is as follows:**

1. Front page (Printed)
2. Index
3. Certificate
4. Speech (Maximum two pages)
5. Bibliography

### MATHEMATICS

1. Prepare Mathematics Lab Manual (Activities – 1,2,3,4,5)
2. Revise Ch – 1,2,3,4

### PHYSICS

- i) Complete the board activity file which has been given to you in .pdf format.
- ii) Make Investigatory project on given points/topics.

### CHEMISTRY

#### **Projects:**

Scientific investigations involving laboratory testing and collecting information from other sources.

A few suggested projects:

1. Study of the presence of oxalate ions in guava fruit at different stages of ripening
2. Study of quantity of Casein present in different samples of milk.
3. Preparation of soyabean milk and its comparison with the natural milk with respect to curd formation, effect of temperature etc.
4. Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time etc.)
5. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
6. Comparative study of rate of fermentations of following materials: Wheat flour, gram flour, potato juice, carrot juice etc.
7. Extraction of essential oil present in saff (aniseed) Ajwain (carom), Elliachi (cardamom)
8. Study of common food adulteration in fat, oil, butter, sugar, turmeric powder, chilli powder, pepper etc.

**Project file should include:**

Personal introductory page with topic.

Certificate

Acknowledgment

Index

Aim

Content detailing (experiment, observation, calculation, result)

Bibliography

**BIOLOGY****1. Create a mind map for each of the following chapters:**

A. Sexual Reproduction in Flowering Plants

B. Human Reproduction

C. Reproductive Health

D. Principles of Inheritance and Variations.

- Use colored pens, flowcharts, and diagrams.

**2. Research Project (5 Marks)**

Choose one of the following topics and make a 5 to 7 page handwritten report:

A. Genetic disorders (e.g., Down Syndrome, Hemophilia)

B. Human Genome Project

C. Cloning and its implications

**3. Diagram Practice File (5 Marks)**

Draw and label the following diagrams:

A. Structure of a sperm and ovum

B. Human male and female reproductive system

C. DNA double helix

D. Structure of Ovary

E. Mendel's monohybrid and dihybrid crosses

**4. MCQ Practice**

Practice at least 50 MCQs from the first 4 chapters in a separate notebook. Mention the correct answer with a short explanation.

**COMPUTER SCIENCE**

Read chapter 8 and 9 'Computer Network 1' and 'Computer Network 2' and make notes.

**ACCOUNTANCY**

(1) Front page

(2) Certificate

(3) Acknowledgement

(4) Content:-

(A) Comprehensive project

(1) Journal entries

(2) Ledger

(3) Trial balance

(4) Trading and profit & loss account

(5) Balance sheet

(B) Specific project

(1) Ratio analysis

(2) Cash flow statement

## **(5) Bibliography**

### **HISTORY**

Prepare a handwritten project report on any one of the topics given below

- i. Town planning and artefacts of Harappan civilization
- ii. Understanding the Bhakti & Sufi Movement
- iii. Mahabharata, through a reader's eye
- iv. Mughal Paintings
- v. The Sanchi and Amravati stupa
- vi. Monuments of Delhi
- vii. An imperial capital Vijaynagar
- viii. Mahatma Gandhi-A legendary soul
- ix. Jainism and Buddhism
- x. Divine Apostle of Guru Nanak Dev
- xi. Help, humanity and sacrifices during partition
- xii. The process behind the framing of Indian constitution

#### **GENERAL INSTRUCTIONS:**

1. The project should be strictly as per guidelines of C.B.S.E.
2. The project should be handwritten, done on A4 size sheet. The total length of the project should not be less than 25-30 pages.
3. It should consist of pictures, maps, coloured illustrations, relevant newspaper clippings, maps, charts (if relevant for any aspect of your project), acknowledgement and bibliography.
3. Students must prepare individual project as it is not a group activity.
4. The projects must be neat and well-presented and must be completely handwritten.
5. No correction pen to be used or written matter to be crossed out. In case of any mistakes, redo the sheet.
6. Pictures should be labelled.
7. Introductory page should include picture and name.

### **BUSINESS STUDIES**

- (1) Front page
- (2) Certificate
- (3) Acknowledgement
- (4) Content:-
  - Project:- Principles of Management
    - (1) Division of work
    - (2) Unity of command
    - (3) Unity of direction
    - (4) Scalar chain
    - (5) Order
    - (6) Equity
    - (7) Centralisation and decentralisation
    - (8) Authority and responsibility
    - (9) Esprit de corps
    - (10) Discipline
    - (11) Initiative
    - (12) Subordination of individual interest to general interest
    - (13) Stability of tenure

## **ECONOMICS**

1. Make a Model on Circular flow of Income in case of three sectors model.
2. What are the reasons that Govt. always calculates its expenses as part of GDP only? Make a case study.
3. Enlist the Policies Introduced by British government during colonial period.
4. Prepare a series of 50 Questions of National Income of all three Methods by yourself.
5. Make a visit to your locality and collect the information about all the factors essential for measuring HDI and prepare one HDI.
6. Make a list on chart paper about the Policies Introduced by govt. for liberty indicator.
7. Prepare a case study over India, China and Nepal with respect to the literacy level, GDP rate, Occupational Structure, Mortality Rate.
8. Collect information about the interest Rates which are essential for monetary Policies.
9. Why was it needed to Introduce New Economic policy in India? Make a case study on the same.
10. How does a commercial bank grant loan to its customer? Assume a hypothetical situation covering all the aspects of procedure.
11. Make a Project file on the following topics-
  - Digital India
  - Balance of Payment
  - Money and banking
  - Human capital formation
  - Sustainable development
12. Practice Assertion Reason Questions of all chapters taught in the class

## **SOCIOLOGY**

### **Instructions:**

The holiday assignment should be handwritten with Blue pen. Black pen can be used for headings. Use of colorful pictures, illustrations, graphs, newspaper clippings is essential wherever required.

Feel free to use creativity and colours as per your need.

Prepare a project on the Sociology Topic already chosen by you

\*Note:- The project should be of 30 A-4 sized plain pages and should include the following heads:

1. Introduction (12-15 pages)
2. Objectives/SOP(2 pages)
3. Methodology (2pages)
4. Pictures/Newspaper cuttings/Graphics(8-10 pages)
5. Questionnaire with 10-12 questions (2 pages)
6. Bibliography (1 page)
7. Section Heads(14pages)

Try to design your Cover Page as well. Use creativity for the Cover Page and Section Heads.

MAIN SECTION HEADS
TITLE
RESEARCH QUESTION
CERTIFICATE
ACKNOWLEDGEMENT
INDEX
INTRODUCTION
STATEMENT OF PURPOSE
METHODOLOGY (2 METHODS)
PRESENTATION OF EVIDENCE
DEMOGRAPHIC PROFILE
ANALYSIS AND INTERPRETATION
CONCLUSION
BIBLIOGRAPHY
APPENDIX

## **PHYSICAL EDUCATION**

### ❖ **Game Names:-**

1. Basket Ball
2. Volleyball
3. Kabaddi
4. Kho-Kho
5. Hockey
6. Football
7. Cricket
8. Athletics

**(Write about any one game using the following points)**

Game History Ground Measurement  
Fundamental Skills Rule and Regulations

Fouls and Technical Fouls Officials

Famous Tournament's Name Famous Personalities Names

### ❖ **Physical Fitness Test: SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)**

### ❖ **Benefit of swiss ball**

### ❖ **Yoga (Write two asanas from each life style disease)**

1. Procedure
2. Benefits
3. Contraindications

### ❖ **Motor fitness test.**

- |                      |                          |                       |                |
|----------------------|--------------------------|-----------------------|----------------|
| 1. Push ups          | 2. Sit ups               | 3. Partial Curl ups   | 4. Shuttle run |
| 5. 50 mtr. Dash run. | 6. 600 m. Run/Walk Test. | 7. Sit and Reach Test |                |

### ❖ **Write any three senior citizen fitness test.**

## **COMPUTER SCIENCE**

1. Do revision of python strings, list, tuples and dictionaries.
2. Read chapter 8 and 9 'Computer Network-1' and 'Computer Network-2' and prepare notes in the notebooks.

## **ART & CRAFT**

### **XII A+D**

Glass bottle art with clay pop, mirror etc. (Size should be 1 litre bottle--- flowers should be included)

### **XII B+C**

Glass bottle art with fevicryl colours. (Size should be 1 litre--- flowers should be included)