

DEFENCE PUBLIC SCHOOL

Affiliated to CBSE

CLASS XI – SCIENCE (SESSION 2025-2026) HOLIDAY HOMEWORK

ENGLISH CORE

Instructions:-English

Core Instructions:-

Each student is supposed to choose any **ONE** out of the below mentioned topics and present them in the form of project.

1. Socio-Cultural Changes and how we react to them

- Man's need of company
- Grandparents and their bond with grandchildren
- Religious Education- Necessary or Not
- Rural Urban Divide- Many Aspects
- Why do we have pets?
- Education system in India
- Sparrows
- Change and Adaptation

Values are learnt at Home (**The Portrait of a Lady**)

2. Resilience

- Why do we travel?
- Family gives us strength
- Practice makes a man perfect
- Why do we write?
- Historical Voyages
- Cards – How they help us express our feelings

(**We are not Afraid To Die....**)

3. Ancient Egypt and Egyptians

- Pyramids
- Archeology
- Advances in Science
- Ancient Myths – Beliefs and Rituals
- Religious Intolerance – Its Effects and solutions
- Socio-Cultural Myths

(**Discovering Tut: The Saga Continues**)

4. Science Fiction- History and its impact on society

- Third Battle of Panipat- Impact on Indian History
- How did East India Company win India?
- Unity is Power (Union is Strength)
- Why should we read history?
- Hard Work or Luck/Chance- What is important?
- Insanity-Reason, Effects and Solutions
- Theory of Determinism

(**The Adventure**)

5. Honesty

- Poverty- Its effects on Social Values
- Rootlessness / Loss of Motherland
- Carefree or Careless- What is your take?
- Horses' values and their place in Society

- Kind words can change anyone
- Thoughts matter more than the Actions
White Horse)

(The Summer of The Beautiful**6. Attachment** (with People and Things)

- Beware of False Friends
- Religious Hatred breaks society
- Impact of war on common people
- Art and why is it important
- Mindfulness (Being Observant) in daily life

(The Address)**7. Memories**

- Mother Child Relationship
- Importance of Family Album (A

Photograph)

MATHEMATICS

Exercise 1.3 - Q. 4, 5, 6

Exercise 1.4 - Q.no - 6, 7, 9

Exercise 1.5 - Q.no - 1, 4, 5

Miscellaneous - Q.no - 3, 7, 9, 10.

Exercise 2.1 - Q.no - 5, 7, 10

Exercise 2.2 - Q.no - 1, 6, 9

Exercise 2.3 - Define All Function and their graphs, Q.no - 2, 4 Miscellaneous - Q.no. - 3, 6, 8, 9, 10, 11, 12.

PHYSICS

1. **Project Work:** Prepare a PPT of 12 to 15 slides on any topic related to a concept showing physics.
2. **Practical File:** Complete the Practicals instructed in the class in your Physics Lab Manual.

CHEMISTRY

1. **Project Work:** Prepare a PPT on any activity depicting chemical process from day to day life.
2. Solve the back exercise of NCERT for chapter 1.

BIOLOGY

1. Do the given questions.
2. Complete the given lab activities.

FINE ART/PAINTING

Create one beautiful Canvas

INFORMATION PRACTICES

Q1. Write a python script to input two numbers and find their sum and product (Using user defined functions).

Q2. A student has to travel a distance of 450 km by car at a certain average speed. WAP script to find the

total time taken to cover the distance.

Q3. WAP script to calculate the Simple interest by inputting the value of principal amount and rate

from

the user for a time period of 5 years.

Q4. Write a program to convert the time inputted in minutes into hours and remaining minutes.

Q5. Write a python program to illustrate implicit type conversion from int to float.

Q6. Write a python code to calculate Simple interest and the amount payable by inputting the value of principal amount and rate from the user for a time period of 5 years.

Q7. WAP to write a python function to compute the area of a rectangle.

Q8. WAP to create a user defined function which displays "I am learning function in Python".

Q9. WAP to obtain temperature in Celsius and convert it into Fahrenheit using the formula:
 $F = C * 9/5 + 32$.

Q10. WAP to get the selling price and GST rate and then print invoice along with both GST and SGST.

Q11. IndiaSells is an India-based cargo company that deals with the export and sale of various goods both within the country and across the globe. To perform business analysis of their day-to-day life transactions, they have hired a programmer to develop a computerized system.

Write a Python code that accepts cost of goods sold (cogs), revenue generated, operating costs (oc) and prints gross profit, net profit and net profit percentage (Net profit = Revenue – cogs – oc)

Q12. WAP to accept the percentage of a student and display the grade accordingly.

Q13. WAP to accept the salary as input from the user and calculate the tax payable.

Q14. WAP to display the factorial of an inputted number.

PHYSICAL EDUCATION

Record File Work Record file shall include:-

i) Complete details of any one game of your choice out of the given list:

- Basketball, Football, Kabaddi, Kho-Kho, Volleyball, Handball, Hockey, Cricket.
- CWSN (Children With Special Needs – Divyang): Bocce/Boccia , Sitting Volleyball, Wheelchair Basketball, Unified Badminton, Unified Basketball, Unified Football, Blind Cricket, Goalball, Floorball, Wheelchair races and throws, or any other sport/games of choice.
- Children with Special Needs may opt any one sport/game from the list as alternative for Yogic Practices. However, the sport/game must be different for skill of Game and alternate to yogic practices. (Labelled diagram of Field & Equipment, Rules, Terminologies & Skills)

ii) SAI Khelo India Fitness Test administration for all items.

iii) Detailed procedure for Asanas, Benefits & contradiction for any Two Asanas for each given lifestyle diseases: Obesity, Diabetes, Hypertension, Asthma and Back Pain & Arthritis. (You can take the help of your textbook)