

SRI RAM KRISHAN DAV PUBLIC SCHOOL,SURIYA(GIRIDIH)

DURGA_PUJA HOLIDAY HOME WORK

SESSION(2026-27)

CLASS-XII(SCIENCE)

English

1. Prepare Notes of 'Poets and Pancakes' highlighting different scenes and incidents present in the chapter.
2. Prepare a report of 'Camp Blood Donation Camp' organised in your last Saturday.

Biology

1. Prepare concept maps for all the chapters included in Unit: Ecology and Environment.
2. Complete all the exercise questions from the respective chapters in your Biology textbook.

Physics

Prepare an activity file of following:-

- 1) To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
- 2) To study the variation in potential drop with length of a wire for a steady current.
- 3) To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
- 4) To study the nature and size of the image formed by a (i) convex lens, or (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).

Chemistry

Complete Practical copy/Lab Manual and Project file for Board Examination

Physical Education

Complete Lab Manual of PHE for Board Examination.

Computer Science

Q1. Python Functions

Write a Python program to define a function SumEven(L) that accepts a list of numbers and returns the sum of all even numbers in the list.

Q2. Write Python statements to:

1. Display the marks of Neha.
2. Add a new entry "Rahul": 88.
3. Update Ravi's marks to 80.
4. Display all student names.
5. Display the complete dictionary.

SRK DAV PUBLIC SCHOOL, SURIYA

Home Assignment for Durga Puja Holiday

Class - XII 'Sci'

Q1). Show that the function $f: \mathbb{R} - \{3\} \rightarrow \mathbb{R} - \{1\}$ given by $f(x) = \frac{x-2}{x-3}$ is a bijection.

Q2). Evaluate the following.

(i) $\tan \left(2 \tan^{-1} \frac{1}{5} - \frac{\pi}{4} \right)$ (ii) $\tan \left[\frac{1}{2} \sin^{-1} \frac{3}{4} \right]$

Q3). Show that
$$\begin{vmatrix} b+c & c+a & a+b \\ q+r & r+p & p+q \\ y+z & z+x & x+y \end{vmatrix} = 2 \begin{vmatrix} a & b & c \\ p & q & r \\ x & y & z \end{vmatrix}$$

Q4). If $y = \frac{\sqrt{1-x^2} (2x-3)^{1/2}}{(x^2+2)^{2/3}}$, find $\frac{dy}{dx}$.

Q5). $\int \frac{1}{\sqrt{x}(\sqrt{x}+1)(\sqrt{x}+2)} dx$