

SRI RAM KRISHAN DAV PUBLIC SCHOOL, SURIYA, GIRIDIH

DEEPAWALI HOMEWORK 2025-26

Class X

SCIENCE

Students are instructed to complete their assigned Science experiment neatly in the practical notebook during the vacation and submitted on the first day after the holidays.

Biology

**** Preparing a temporary mount of a leaf peel to show stomata.**

**** Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.**

Physics

****Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determining its resistance. Also, plotting a graph between V and I.**

****Tracing the path of the rays of light through a glass prism.**

Chemistry

****Performing and observing the following reactions and classifying them into:**

- a) Combination reaction
- b) Decomposition reaction
- c) Displacement reaction
- d) Double displacement reaction

☐ Action of water on quicklime

☐ Action of heat on ferrous sulphate crystals

☐ Iron nails kept in copper sulphate solution

☐ Reaction between sodium sulphate and barium chloride solutions

****Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:**

- a) ZnSO_4 (aq)
- b) FeSO_4 (aq)
- c) CuSO_4 (aq)
- d) $\text{Al}_2(\text{SO}_4)_3$ (aq)

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

MATHS

Make a lab manual of the following experiments or topics

- a. To investigate the conditions for consistency and inconsistency for a system linear equations in two variables by graphical method.
- b. Verify basic proportionality theorem experimentally.
- c. To verify that if two triangles are equiangular then their corresponding sides are proportional and the triangles are similar.
- d. To verify experimentally that $\sin^2\theta + \cos^2\theta = 1$.
- e. To verify that the sum of n natural numbers is $(n(n+1))/2$.
- f. To make a clinometer to measure the angle of elevation and angle of depression of an object.

ENGLISH

Prepare the Portfolio as per the given PDF in Class Group. Take the printout and then complete the work and submit.

HINDI

प्रश्न. 1 निम्नलिखित विषय पर 120 शब्दों में एक अनुच्छेद लिखिए ।।

(क)आत्म निर्भर भारत (ख)विज्ञापन की दुनिया (ग) आधुनिक जीवन शैली और स्वास्थ्य ।

प्रश्न. 2 दो औपचारिक और दो अनौपचारिक पत्र लिखें।

प्रश्न. 3 (1) बड़े भाई की शादी पर आमंत्रित करने के लिए अपने मित्र को एक ई-मेल लिखें ।

(2) पासबुक खो जाने की सूचना देते हुए बैंक प्रबंधक को एक ई-मेल लिखिए

प्रश्न न. 4 (1) जल संरक्षण के प्रति जागरूकता बढ़ाने के लिए एक आकर्षक विज्ञापन बनाइए ।

(2) प्रदूषण से बचने के लिए पर्यावरण विभाग की ओर से जनहित में जारी एक आकर्षक विज्ञापन बनाइए ।

(2) दीपावली की बधाई देते हुए अपने मित्र को एक बधाई संदेश लिखें।

Social science

1. Project Work on Consumer Rights

Prepare a detailed project on Consumer Rights including meaning, importance, consumer protection laws in India (Consumer Protection Act 1986 & 2019), types of rights (right to safety, right to information, right to choose, right to be heard, right to redressal, right to consumer education), and real-life examples/case studies.

2. Timeline Preparation (History Chapters)

Collect important dates and events and prepare a timeline for the following chapters:

Nationalism in Europe

Nationalism in India

Information Technology

Prepare a Lab Manual