

SRI RAM KRISHAN DAV PUBLIC SCHOOL, SURIYA (GIRIDIH)
DEEPAWALI HOLIDAY ASSIGNMENT (2025-26)
CLASS – IX

1. 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.

I. Biology

a. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides. Draw their labelled diagrams.

b. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labelled diagrams.

II. Physics

a. Determination of the density of a solid (denser than water) by using a spring balance and a measuring cylinder.

b. Verification of the laws of reflection of sound.

2. HINDI

1 - निम्नलिखित विषय पर 120 शब्दों में एक अनुच्छेद लिखिए ।।

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

2 - दो औपचारिक और दो अनौपचारिक पत्र लिखें।

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

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

4 - (i) जल संरक्षण के प्रति जागरूकता बढ़ाने के लिए एक आकर्षक विज्ञापन बनाइए ।

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

5 - (i) दीपावली साथ मनाने के लिए दो मित्रों के बीच का संवाद लिखें।

(ii) रंगोली प्रतियोगिता से संबंधित अपने विद्यालय की ओर से एक सूचना लिखें।

3. MATHEMATICS

ACTIVITY MANUAL

Activity 1: To construct a square root spiral.

Activity 2: To find a square root of positive real number.

Activity 3: To factorize a quadratic expression.

Activity 4: To find the area of triangle experimentally.

Activity 5: Effect of addition and subtraction on the group of linear equation.

NOTE: - All the students are instructed to complete these activities in Mathematics Lab Manual

4. SOCIAL – STUDIES

Geography

Write the answer of these questions:

i) Why does India have a monsoon type of climate?

ii) Which part of India does experience the highest diurnal range of temperature and why?

III. Chemistry

a. Preparation of - a) A mixture b) A compound

Using iron filings and sulphur powder and distinguishing between these on the basis of:

- appearance, i.e., homogeneity and heterogeneity
- behaviour towards a magnet
- behaviour towards carbon disulphide as a solvent
- effect of heat

b. Perform the following reactions and classify them as physical or chemical changes:

- Iron with copper sulphate solution in water
- Burning of magnesium ribbon in air
- Zinc with dilute sulphuric acid
- Heating of copper sulphate crystals
- Sodium sulphate with barium chloride in the form of their solutions in water.

- iii) What are Jet streams, and how do they affect the climate of India?
- iv) Define monsoons. What do you understand by "break" in monsoon?
- v) Why is the monsoon considered a unifying bond?

5. ENGLISH

a) Underline the noun phrase in each sentence.

1. The tall boy with curly hair is my friend.
2. A basket full of mangoes was lying on the floor.
3. The roar of the lion scared the villagers.
4. She adopted a puppy with brown spots.
5. The story of the brave soldier inspired us.

b) Identify the adjective phrase and name the noun it describes.

6. The man in the black suit is our principal.
7. A painting of great beauty was displayed in the gallery.
8. I saw a car with tinted windows.
9. The girl dressed in blue is my sister.
10. The players full of energy won the match

c) Underline the adverb phrase and state whether it shows time, place, manner, or reason.

11. He spoke in a loud voice.
12. They arrived after the show.
13. The children are playing in the garden.
14. She danced with grace.
15. We stayed indoors because of the storm

Q. Change the following sentences into indirect speech.

1. He said, "**I am going to the market.**"
2. She asked, "**Are you coming with me?**"
3. The teacher said, "**Open your books to page twenty.**"
4. Rahul said, "**I watched a movie last night.**"
5. Maya said, "**I have never seen snow before.**"
6. The doctor said, "**Take this medicine twice a day.**"

7. They said, "**We are planning a trip to Manali.**"
8. Reena asked, "**Where did you find this book?**"
9. My mother said, "**Don't forget to lock the door.**"
10. The boy said, "**I can't solve this math problem.**"

Q. You stay in a colony where street lights have not been working for weeks. Write a complaint letter to the Municipal Corporation seeking restoration of lighting for safety.

Q. You are concerned about the rising level of air pollution in your city. Write a letter to the Editor suggesting measures to control it.

Q. Write the character sketch of A.P.J Abdul Kalam.

Q. Write an article emphasizing the significance of physical education in the overall development of students.

Answer the following questions (long)

1. How did Abdul Kalam earn his first wages? What was his emotional response to this experience?
2. Explain the significance of Abdul Kalam's parents in his early life. How did their values influence his upbringing?
3. Narrate the story of Abdul Kalam's involvement in the Shri Sita Rama Kalyanam ceremony. What does this event reveal about his character?
4. Describe the poet's longing for Innisfree and how he contrasts it with his present surroundings.
5. Explain the significance of the natural elements mentioned in the poem 'The Lake Isle of Innisfree', such as the cabin, bean-rows, honeybee, and the sounds of nature