



Dr. Virendra Swarup Education Centre , Unnao

Winter Holiday Homework

Class – 7

ENGLISH

Task 1: Illustrated Travel Diary of Arunachal Pradesh

Create a travel diary imagining a trip to Arunachal Pradesh.

Document the cultural, historical, and geographical diversity of Arunachal Pradesh.

Each page can represent a day of their trip, showcasing:

- Traditional festivals like Losar or Si-Donyi.
- Important landmarks like Tawang Monastery or Ziro Valley.
- Local food, flora, and fauna.

Include hand-drawn illustrations, maps, and short descriptions for each entry. Add creative elements to make it realistic.

Task 2: Diary Entry

It's New Year's Eve. Write a diary entry describing your thoughts, reflections on the past year, and your goals for the coming year. (Word limit: 150-200 words)

(To be done in Language notebook)

Task 3: Essay Writing

Write an essay on the topic: "The Importance of Family During Festive Seasons" (Word limit: 250-300 words)

(To be done in Language notebook)

SCIENCE - Activity: Grafting a Plant in Winter

Objective:

To understand the process of plant grafting and its importance in horticulture.

Materials Needed:

1. Two healthy plants (one as rootstock, one as scion)
2. A sharp knife or pruning shears
3. Grafting tape or plastic wrap
4. Garden gloves
5. A clean cloth
6. . Label or marker

Steps:**1. Preparation:**

Choose two compatible plants (e.g., citrus plants or roses).

Ensure one plant (rootstock) has a strong, healthy root system and the other (scion) has good quality stems.

2. Cutting the Scion:

From the scion plant, cut a healthy stem with 2–3 buds.

Trim both ends at an angle to form a wedge.

3. Preparing the Rootstock:

On the rootstock plant, make a vertical slit or cut to match the scion's wedge.

4. Joining the Scion and Rootstock:

Fit the scion wedge into the slit of the rootstock. Ensure the vascular tissues align.

5. Securing the Graft:

Wrap the graft area tightly with grafting tape or plastic wrap to prevent air and moisture from entering.

6. Labeling and Monitoring:

Label the grafted plant with the date.

Place the plant in a sheltered area and water as needed.

7. Observation:

Over 2–4 weeks, monitor the graft for signs of growth, such as new leaves or buds.

Safety Note:

Ensure students handle sharp tools carefully under adult supervision.

This activity combines practical skills and knowledge about plant propagation methods.

OR

1. Your neighbours are throwing garbage peels and other things every day out of their houses, which makes the surroundings dirty. Being a good citizen of society what steps will you take to make him understand his mistake . Write any 4 steps on the blank sheet.

Also mention how to convert this garbage peel into manure .

Prepare manure from the garbage peel.

Composting-

1.Composting is the disposal method of kitchen waste. kitchen waste are biodegradable and can convert to manure. The conversion of biodegradable waste into manure is called composting.

Steps of preparation of compost

- 1.Dig a pit that is 10 centimetre deep in the in a place where direct sunlight is not available .
- 2.Spread 2 centimetre thick layer of sand on the floor of a pit
- 3.Put a garbage over the sand layer.
- 4.Also keep cow dung in the pit.
- 5.Sprinkle some water on it .

6. Put red worms on pit.

7. Cover the pit with a gunny bag or a layer of grass.

8. The red worm will feed the kitchen waste and their excreta is collected in the pit

9. This excreta is collected after 3-4 weeks and this soil like loose material is called manure.

MATHS - Case Study:

A. Understanding Simple Interest

Ravi wants to save money for his higher studies. He decides to deposit some amount in a savings account. The bank offers an annual simple interest rate of 5%. Ravi plans to deposit ₹10,000 for 3 years.

Scenario:

Ravi is curious about how much money he will have at the end of 3 years. He also wonders how the interest would change if he deposits ₹15,000 instead of ₹10,000 or if the time period changes to 4 years.

Questions

1. Calculate the simple interest for Ravi's initial deposit of ₹10,000 for 3 years at 5% annual interest.
2. What will be the total amount in Ravi's account at the end of 3 years?
3. If Ravi deposits ₹15,000 instead of ₹10,000, what will be the simple interest earned in 3 years?
4. If the time period increases to 4 years (with a deposit of ₹10,000), what will be the simple interest?
5. Ravi wants to save ₹2,500 as interest in 3 years. How much should he deposit at 5% annual interest to achieve this goal?

B. Profit and Loss

Rahul runs a small stationery shop. He buys items from wholesalers and sells them to customers. One day, he purchased 50 notebooks for ₹25 each and sold them for ₹30 each. Later, he bought 100 pens at ₹10 each and sold 80 of them at ₹15 each. The remaining pens were sold at ₹8 each.

Scenario:

Rahul wants to calculate the profit or loss he made on each transaction to understand how to manage his prices better. Questions:6

1. Calculate the total cost price (C.P.) and selling price (S.P.) of the 50 notebooks. Did Rahul make a profit or incur a loss? How much?
2. Calculate the total C.P. and S.P. of the 100 pens. Did Rahul make a profit or incur a loss? How much?
3. What is Rahul's overall profit or loss from the sale of both the notebooks and pens?

4. Rahul wants to earn a profit of 20% on the remaining pens. At what price should he sell them?
5. If Rahul had purchased the notebooks for ₹28 each, what would have been his profit or loss percentage?

C. Geometry in Art

Draw a rangoli design using at least: 2 circles, 3 triangles, 4 squares

Write the formulas used to calculate the area and perimeter of each shape in your design.

D. Real-Life Data Collection

Record the temperature of your city for a week and represent it on a bar graph.

*Calculate the average *temperature of the week.

*Identify the highest and lowest temperatures during the week.

E. Design your own math puzzle related to topics such as profit and loss, percentages, or fractions. Write the problem and solve it.

F. Time Management

You have 10 days of holidays. Plan your schedule for each day and divide your time among these activities:

Studying, Playing, Watching, Sleeping

- Represent your schedule in a bar graph.
- If you spend 25% of your time playing, how many hours is that in 10 days?
- How much time will you have left for studying if you spend 40% of your time sleeping?

SOCIAL STUDIES – (i) Research a notable historical figure from India (e. g Mahatma Gandhi, Rani Lakshmbai, C. V Raman) and write a biography about their life and achievements.

(work to be done in History/ Civics notebook)

ii) Research a specific country and create a travel poster highlighting its attractions, culture and geography.

(Work to be done on an A 4 size sheet)

COMPUTER - Create a chart in your computer notebook of all the keywords that are used in Python.

HINDI - Note:- निम्नलिखित शीतकालीन कार्य हिंदी भाषा की कॉपी में करना है।

1- कल्पना कीजिए आप अपने शहर की नगर पालिका के सदस्य हैं। ऐसे उपायों की सूची बताइए जिससे नगर के सभी निवासियों को स्वच्छ जल की आपूर्ति सुनिश्चित हो सके।

2- पत्र लेखन (औपचारिक)

विषय:- आपके विद्यालय के पुस्तकालय में हिंदी पुस्तकें कम हैं हिंदी- पुस्तकें मंगवाने के लिए प्रधानाचार्या जी को प्रार्थना पत्र लिखिए।

