

Autumn break – Holidays HW class VIII

Science -VIII

1. Read and learn all the lessons from 7 to 10.
2. Read and write one page each about any three given scientists of India. Also paste their pictures. You can draw the picture.
 - a) Dr. Homi j. bhabha
 - b) Dr. C. V. Raman
 - c) Jagdish Chandra Bose
 - d) Srinivasa Ramanujan
 - e) Dr. A.P.J. Abdul kalam

हिंदी

कला-समेकित प्रोजेक्ट, कक्षा - आठवीं (पाठ - मत बांधौ)

1. चित्रकला

- कविता के मुख्य भाव 'सपनों की स्वतंत्रता' को दर्शाते हुए एक सुंदर चित्र बनाइए, जिसमें एक खुले आसमान में पंख फैलाकर उड़ते हुए पक्षी या गुब्बारे के साथ उड़ती हुई कल्पना को चित्रित किया गया हो।

2. शिल्प कला (पिंजरा और मुक्ति):

- गत्ते या कागज (की मदद से एक खुला हुआ या टूटा हुआ पिंजरा बनाइए, जिससे बाहर निकलते हुए पक्षी या सपने का रूप दर्शाया गया हो।

3. रचनात्मक लेखन

- 'यदि हमारे सभी सपने सच हो जाएं, तो यह दुनिया कैसी होगी?' इस विषय पर 4-5 पंक्तियाँ लिखिए और उसके चारों ओर सुंदर सजावटी बॉर्डर बनाइए।

4. विचार - विमर्श और लेखन :

कविता के मुख्य विषय 'सपनों की स्वतंत्रता' पर अपने परिवार के किसी सदस्य के साथ चर्चा कीजिए और सपने देखने के महत्व पर अपने विचार 4-5 पंक्तियों में लिखिए।

(विषय: - संस्कृतम्)

- 1) अधोलिखितम् वर्गचित्र-जालम् वर्णमयः स्फोरकपत्रे उत्तरसहितं सुंदरम् निर्माय लिखन्तु? (इसे किसी रंगीन शीट पर सुंदर रूप में उत्तर सहित तैयार करें।)

अधः अस्मिन् पाठे आगतानां शब्दानाम् आधारेण शब्दजालं प्रवृत्तम् अस्ति। अत्र वामतः दक्षिणम् उपरितः अधः च आधारं कृत्वा उदाहरणानुसारं शब्दान् रेखाङ्कयत।

(नीचे इस पाठ में आए शब्दों पर आधारित एक शब्दावली दी गई है। यहाँ बाएँ से दाएँ और ऊपर से नीचे दिए गए उदाहरणों के अनुसार शब्दों को रेखांकित कीजिए।)

वर्गचित्र-जालम्

मा	रा	डि	जी	लॉ	क	रू	सं	पी	सै
यू	ज	जि	आ	व	हॉ	त	वा	ए	ब
ग	मा	ट	भा	र्थि	लो	ब्लॉ	द	म्	रू
वू	गं:	ल्	सी	ता	ग्रा	क्	य	कि	कै
यू	पी	आ	यू	ना	म्	चे	न्त्र	सा	म्
वा	म	जे	शा	वि	ज्ञा	न्	म्	न्	ना
णि	ज	म	स	नि	अ	र्थ	व्य	व	स्था
ज्य	को	वे	न्	म	कृ	त्रि	म	बु	द्धिः
म्	ज	क	स्व	य	म्	प्र	भा	शि	नि
ग्रौ	द्यो	गि	की	फ्रा	स्टै	गू	छ	क्षा	ष्ठा

- 2) "गीता सुगीता कर्तव्या" अस्मात् पाठात् चित्वा कोऽपि स्वेच्छया चत्वारि श्लोकानि हिंदी अर्थ सहितं लिखित्वा कंठस्थम् कुर्वन्तु? (प्रस्तुत दिए गए पाठ में से कोई भी चार श्लोक हिंदी अर्थ सहित याद करें।)
- 3) "मंजुलमंजूषा सुन्दरसुरभाषा" पाठस्य प्रथमं द्वितीयं च गीतश्लोकानाम् पदानि हिन्दयाम् अर्थम् च लिखित्वा स्मरन्तु? (इस पाठ का पहला और दूसरा गीत श्लोको को लिखकर हिन्दी अर्थ सहित याद करें।)
- 4) "डिज़िभारतम्-युगपरिवर्तनम्" पाठस्य प्रश्न संख्या- 1, 3, 6, 8, 9 प्रश्नान् लिखित्वा सम्यक्तया स्मरन्तु?

8th SST

Evergreen
Page No. _____
Date: / / 20__

- Q1 Revise chapter 1 to 4 for exam
- Q2 What are Rights and write about the fundamental Rights and duties in our constitution
- Q3 How can we help build a society where everyone is treated fairly respected and ~~not~~ included?
- Q4 Explain the Role of supreme court high court and subordinate court and district court's

English Holiday Homework

1. Read three pages daily.
2. Learn all your classwork.
3. Write a story, a letter, a notice and diary entry about any two days of your holidays.
4. MDP (Multidisciplinary Project).
5. Make a 2-minute video on any one of the following topics:
 - * A Story
 - * An Event
 - * A Place

MATHEMATICS

Chapter: Percentage

Theme: Mathematics in Real Life – Observe, Calculate and Learn

General Instructions

- Use real-life data wherever possible.
- Show all calculations clearly.
- Write a short conclusion for each activity.
- If actual data is unavailable, use estimated data

Activity 1: Air Pollution Detective

Topic: Percentage Increase and Decrease

Record the Air Quality Index (AQI) of your city on the first day of vacation, before Dussehra, after Dussehra, and on the last day of vacation. Use the same reliable source for all readings.

Date	AQI Reading
First day of vacation	_____
Before Dussehra	_____
After Dussehra	_____
Last day of vacation	_____

1. By what percentage did the AQI increase or decrease after Dussehra compared with the reading before Dussehra?
2. Calculate the percentage change in AQI between the first and last days of your vacation.
3. Does a 20% increase in AQI necessarily mean that air pollution has become exactly 20% more harmful? Give a reason.

Activity 2: Electricity and Water Conservation

Topic: Percentage Saving

Observe household electricity consumption and water usage. Ask your parents before recording any household information.

Resource	Earlier Usage	Later Usage
Electricity	_____ units	_____ units
Water	_____ litres	_____ litres

4. If electricity consumption decreases from 200 units to 160 units, calculate the percentage decrease.
5. If your family uses 100 litres of water daily and reduces its usage by 15%, how many litres are saved per day?
6. If your family saves 20% of its original electricity consumption of 250 units, how many units are saved?
7. Suggest three practical ways to save electricity and water at home.

Activity 3: Smart Shopper – Discounts and Savings

Topic: Percentage and Discount

Visit a shop or observe advertisements for three products. Record their marked prices and discount percentages.

Product	Marked Price	Discount
Product 1	₹ _____	_____ %
Product 2	₹ _____	_____ %
Product 3	₹ _____	_____ %

8. Calculate the discount amount for each product.
9. Find the final price of each product after the discount.
10. Which product offers the greatest saving in rupees?
11. A school bag costs ₹1,200 and is available at a 25% discount. Calculate the discount amount and the final price.
12. A shop offers successive discounts of 10% and 20% on an item marked at ₹1,000. Calculate the final price.
13. Is a 20% discount on an expensive product always a greater saving in rupees than a 10% discount on a cheaper product? Explain with an example.
14. If you have ₹1,500, how would you compare the prices of two products to make a sensible purchase?
15. Write three things you learned about percentages, savings and responsible shopping through this activity.

Complete the above work by 22nd October.

Day 9 & 10: Friday, 23 October & 24 October

Do your other activity related works like MDP, Art integrated Project, Learner's Diary etc.

Happy Holidays and Happy Dussehra!

Submission: Complete the activities neatly in a project file **or** in a separate holiday's homework notebook. Attach photographs or screenshots of data sources wherever available/applicable.

ARTIFICIAL INTELLIGENCE CLASS 8

Activity 1: The AI Project Cycle

Explain the five stages of the AI Project Cycle:

1. Problem Scoping
2. Data Acquisition
3. Data Exploration
4. Modelling
5. Evaluation

Give one example of a school-related AI project and explain how each stage would be used.

Activity 2: Data Visualisation

The following table shows the number of students participating in different school clubs.

Club	Students
Science	25
Art	20
Sports	35
Eco Club	15
Coding	30

Answer the questions:

1. Which club has the highest participation?
2. Which club has the lowest participation?
3. Calculate the total number of participants.
4. Draw a suitable bar graph.
5. Explain how data visualisation helps us understand information.

Activity 3: Design an AI Solution

Choose one problem:

- Identifying plants in a school garden
- Predicting water requirements for plants
- Sorting waste into categories
- Recommending books to students

Prepare a one-page project proposal with the problem, objective, data required, expected output, and possible limitations.

Activity 4: AI Ethics and Bias

Imagine an AI system used to recommend students for a school competition. It selects students using only their previous marks.

Explain:

1. Why might the system be unfair?
2. What additional information could improve the selection process?
3. Why should a human teacher review its recommendations?
4. What is meant by bias in AI?

Activity 5: AI Tool Exploration

With teacher or parent permission, explore one AI tool suitable for educational use.

Record its name, purpose, one task you tried, the result, one limitation, and one safety precaution. If online tools are unavailable, research an AI application from your textbook.

Art education

Make 2 human figure painting with poster colour

MDP

Mandatory Common Pages:

1. **Cover Page:** School name, project title in bold, student's name, class, section, roll number, and subject teacher's name.
2. **Acknowledgement:** Thanking your principal, subject teachers, and parents.
3. **Certificate / Declaration:** Signed by the student or teacher verifying completion.
4. **Index / Table of Contents:** Listing subjects and page numbers.
5. **Introduction:** A short overview (100–150 words) of the chosen theme.
6. **Subject-wise Pages:** Detailed tasks for each discipline (see breakdown below).

Subject-Wise Breakdown (Popular Theme Example: *Energy and Sustainable Living*)

- **English:**

1. Write an informative article or essay on daily energy choices and conservation.
 2. Create an **energy awareness poster** with a catchy slogan.
 3. Write a short poem or dialogue about a greener, sustainable future.
- **Hindi:**
 1. अनुच्छेद (Paragraph) on renewable energy sources (नवीकरणीय ऊर्जा) or energy conservation (ऊर्जा संरक्षण).
 2. Write a short dialogue (संवाद लेखन) or slogans on saving power.
 - **Sanskrit:**
 1. लघु अनुच्छेद (Short paragraph) on energy types or benefits of renewable energy (ऊर्जायाः प्रकाराः).
 2. Illustrated picture description (चित्र वर्णन) showing energy conservation at home.
 - **Mathematics:**
 1. Collect monthly electricity bill data for your house or neighborhood over 3 months.
 2. Represent the data using a **bar graph** (or double-bar graph) and a **pie chart** showing appliance-wise energy consumption.
 - **Science:**
 1. Make a comparative table of **renewable vs. non-renewable energy sources**.
 2. Write a brief case study on a major sustainable energy project in India (e.g., a large solar park or wind farm).
 3. Which sustainable energy source is practically possible in your area. Write the reason. And how will it impact the life of residents.
 4. Write the drawbacks of renewable resources of energy.
 - **Social Science:**
 1. Research Indian government initiatives like the *Pradhan Mantri Ujjwala Yojana* or the *National Solar Mission*.
 2. Mark major renewable energy projects or power plants on an **outline map of India**.
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