

PM SHRI KENDRIYA VIDYALAYA LOKRA
HOLIDAY HOME WORK

CLASS 6 SUBJECT: AI

Answer the following questions:

- 1. What is Artificial Intelligence (AI)?**
- 2. Write the names of any three AI tools.**
- 3. How is AI used in our daily life?**
- 4. What is a chatbot? Give one example.**
- 5. Write any two benefits of Artificial Intelligence.**

कक्षा - 6 B/A

- ① दुर्गापूजा पर 100 शब्दों में एक निबंध लिखिए।
 - ② 'मैया में नहीं माखन खाओ' यह है कविता को याद करें।
 - ③ शरदकालीन अवकाश में आपन क्या-क्या किया ? अवकाश के अंतिम दिन 100 शब्दों में लिखें।
- पं. प्र.

Autumn Break Holiday Homework 2026-27

Subject: **English** | Class: **VI**

1. **Collage:** Prepare a collage of any **five Indian festivals** using drawings or pictures.
English task: Write the name of each festival and one sentence about how it is celebrated.
2. **Monuments:** Draw or paste pictures of any **four famous Indian monuments**.
English task: Write their names, locations, and one interesting fact about each.
3. **Picture Composition:** Draw a picture of a park, garden, or playground and write **five sentences** describing it.
4. **Diary Entry:** Write a diary entry about how you spent a happy day during your autumn break.

पी. एम. श्री केंद्रीय विद्यालय लौकरा

शरदावकाशस्य गृहकार्यम्

विषयः - संस्कृतम्

कक्षा - षष्ठी

(1) शब्दलेखनम्

दश फलानां, दश पुष्पाणां, दश पशूनां च नामानि संस्कृते लिखत ।

(2) शब्दरूपाणि

निम्नलिखितशब्दानां शब्दरूपाणि लिखत

- बालक
- लता
- फल

(3) धातुरूपाणि

पठ्, गम् धातौः लट् लकारे रूपाणि लिखत ।

(4) स्वविद्यालयस्य चित्रं स्वचित्वा - तस्य विषये पञ्च वाक्यानि लिखत ।

(5) स्वच्छलेखनम् - पाठ्यपुस्तकात् अष्टमपाठान् गद्यांशः स्वच्छतया लिखत ।

(6) अव्ययपदानि - अधोलिखितेषु वाक्येषु उचितम् अव्ययपदं लिखत ।

(क) रामः — विद्यालयं गच्छति (प्रतिदिनम्/च)

(ख) — वर्षा भवति (अद्या/पुरा)

(ग) बालकाः — क्रीडन्ति (सह/कुत्र)

(घ) त्वं — गच्छसि ? (कुत्र/एव)

PM SHRI KENDRIYA VIDYALAYA LOKRA

AUTUMN BREAK HOLIDAY HOMEWORK

Class: VI

Subject: Social Science

Session: 2026-27

A. Answer the Following Questions

1. Differentiate between Gram Sabha and Gram Panchayat.
2. Explain the role of farmers, shopkeepers, and teachers in the economy.
3. What types of occupations did the Harappan people practise?

B. Activity

Draw a flowchart showing the three levels of the Panchayati Raj System.

C. Project Work

Topic: Our Local Community and Its Economy

Prepare a short project covering the following points:

Name of your locality.

Important economic activities practised in your locality.

Three public facilities available in your locality.

The role of local government.

Suggestions for improving your locality.

Instructions:

Complete the homework neatly.

Use suitable pictures and drawings wherever necessary.

Present your project in an attractive and organised manner.

PM SHRI KENDRIYA VIDYALAYA, LOKRA

AUTUMN BREAK HOLIDAY HOMEWORK

Subject: Mathematics

Class: VI

Instructions:

- i) Complete all the questions neatly.
- ii) Do the entire holiday homework in your Mathematics notebook.
- iii) Show all necessary calculations and steps.
- iv) Keep your notebook neat and clean.

Q1. Find the perimeter of any two rectangular objects in your home, such as a table and a notebook. Measure their length and breadth, write the formula, and calculate their perimeters.

2. Choose any five numbers between 1 and 100. For each number, find its factors and determine whether it is prime or composite. Also, write its first five multiples.

3. The number of books read by five students during the holidays is given below:

Student	Books Read
A	4
B	6
C	3
D	8
E	5

Answer the following questions:

- i) Prepare a bar graph using the given data.
- ii) Draw a pictograph using the given data.
- iii) How many books were read by all five students altogether?

Wishing You All a Happy and Blessed Durga Puja! 🎉🌸

Enjoy your holidays and stay happy! 🎊🌟

KENDRIYA VIDYALAYA, LOKRA
HOLIDAY HOME WORK

DATE : 12.10.2026
SUBJECT : SCIENCE

CLASS VI A & VI B

Note : Do your home work in a separate Note book of 20 pages add separate A4 sheet wherever required.

1. A Journey Through States of Water

- **Activity Title:** The 7-Day Evaporation & Condensation Diary
- **Objective:** To observe how temperature, surface area, and air affect water states.
- **Creativity/Application Task:**
 - Take two identical bowls. Fill Bowl A with 50ml of water and place it in direct sunlight. Fill Bowl B with 50ml of water and keep it inside a dark, cool room.
 - Measure and note the remaining water level in both bowls using a small scale or measuring cup every 24 hours for 5 days.
 - **Application:** Write a short note on *why* wet clothes dry faster on a windy day or under a fan, and sketch a creative "Water Droplet's Diary" describing its journey from a puddle to vapor in the clouds and back as morning dew.

2. Methods of Separation Through Everyday Life

- **Activity Title:** The Kitchen Scientist Challenge
- **Objective:** To apply physical separation techniques used at home.
- **Creativity/Application Task:**
 - Create a mixed plate containing: *tea leaves, sand, salt, and iron filings*.
 - Design a step-by-step flowchart and physically separate the mixture using everyday tools:
 - Use a bar magnet to pull out the **iron filings** (magnetic separation).
 - Add water to dissolve the salt, and use hand-picking or cloth **filtration** to remove the sand and tea leaves.
 - Use **evaporation** by heating the salty water solution under adult supervision to recover pure salt crystals.
 - **Creativity:** Paste the separated samples in labeled zip-lock pouches on an A4 pastel sheet with a creative title like "*The Great Kitchen Cleanup Report*".

3. Living Creatures: Exploring Their Characteristics

- **Activity Title:** Backyard Ecosystem & Seed Growth Tracker
- **Objective:** To identify living characteristics, growth, and seed germination.
- **Creativity/Application Task:**

- Plant 5 dry gram (chana) or moong seeds in a small paper cup with moist cotton. Observe and record root growth (*gravitropism*) and shoot growth (*phototropism*) over 7 days with daily drawings.
 - Conduct a 15-minute garden or balcony survey to list 5 living things and 5 non-living things you spot. For the living things, note down **one specific adaptation** (e.g., how a local bird or ant moves or feeds).
- Creativity:** Build a comic strip titled "*A Day in the Life of a Germinating Seed*" showing how it

4. Nature's Treasure

- **Activity Title:** Natural vs. Man-Made Material Scavenger Hunt
- **Objective:** To distinguish between natural treasures/materials and synthetic products.
- **Creativity/Application Task:**
 - Walk around your house and collect or photograph 6 items (e.g., cotton cloth, a wooden spoon, a steel glass, a plastic bottle, a clay pot, a wool sweater).
 - Classify them into **Nature's Treasures (Natural)** and **Human-Made (Synthetic)**. Write down what raw natural resource each human-made item came from.
 - **Creativity:** Design a colorful poster or bookmark with the slogan "*Protect Nature's Treasure*", illustrating 3 ways your family can reduce plastic waste at home.
 - respire, grow, and seek sunlight.

5. Beyond Earth

- **Activity Title:** My Mini Space Observer & Moon Phase Journal
- **Objective:** To track celestial bodies and understand basic Earth-space relationships.
- **Creativity/Application Task:**
 - Observe the night sky for 5 clear nights (with an elder) and draw the shape of the Moon as you see it change day by day (phase tracking).
 - Create a chart for its shapes everyday.
- **Application:** Write a short imaginative postcard *from* an astronaut floating in space back to Earth, describing how day and night or the view of Earth looks from *Beyond Earth*.

PM SHRI K V LOKRA

Autumn Break

Holiday Homework (2026-27)

class - 6

Sub - Assamese

1. তলত দিয়া প্ৰশ্নবোৰৰ উত্তৰ লিখা —
(write the question answers)

(ক) নীল আকাশত কি কি ওলায়?

(খ) ঘৰটিবিশিষ্ট কেনেকৈ স্নাতক আৰু
পাটবিৰ (5) চৰাইৰ নাম লিখা।

(গ) অসমত উদ্ভাষিত হোৱা 2 টি উদ্ভিদৰ
বিশেষ চৰু কি উল্লেখ কৰা।

ক্ৰিয়াকলাপ (Activity)

1. বিখ্যাত বসন্তৰ হোৱা বাদ্যযন্ত্ৰ ঢোল, লপা,
তাল, গগনা, বাঁশী ইত্যাদি চিত্ৰসমূহ এখন
চাৰ্ট পেপাৰত আঁকন কৰি সেইটোৰ বিষয়ে
খবৰলৈকে লিখা।

(The instrument used in the Assamese Festival
Bihu such as Dhol, Pepa, Tal, Gogona etc.
is to be drawn ~~to be~~ in to a chart paper, with
each picture a line should be dedicated for doing
the same. A line is to be written in accordance
to the instrument.)

2. "Card Board" বসন্তৰ গৰি এটা নামঘৰ তৈয়াৰ কৰা।
(With the use of a "Card Board" make a Namghar/
Make a "Namghar" using a Card Board.)

Autumn Break Holiday Homework

PM SHRI KENDRIYA VIDYALAYA LOKRA

Subject: Vocational Education

Classes VI, VII, VIII and IX

General Instructions for All Students

- Write all theory answers neatly in your Agriculture notebook.
- Complete both projects using drawings, photographs, collected materials or observations, as appropriate.
- Mention the student's name, class and section on the project work.
- Use locally available and safe materials wherever possible.
- Submit the completed holiday homework on the first day after the autumn break.

Happy Holidays! Learn, observe and grow! 🌱

Class VI – School Kitchen Garden

A. Theory Questions

1. What is a school kitchen garden? Write any three benefits of having one in a school.
2. Name five vegetables that can be grown in a kitchen garden. Mention the basic conditions required for their growth.
3. Explain the steps involved in preparing a small kitchen garden, from soil preparation to watering.

B. Project Work

4. Draw a Kitchen Garden: Draw and label a layout of a school kitchen garden showing at least five vegetable beds, a water source, a pathway and a compost pit.
5. Seed Collection Project: Collect and paste pictures or samples of five vegetable seeds in your notebook. Write the name of each vegetable and the suitable season for growing it.

**HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION -
2026-27**

- ART EDUCATION -

CLASS 3RD TO 10TH

- 1. MAKE A 3D CRAFT USING BEST OUT OF WASTE. (AVOID TO USE PLASTIC AND THERMOCOAL)**
- 2. MAKE A BEAUTIFUL GREETING CARD WITH ENVELOPE ON THE THEME OF DIWALI FESTIVAL. (APPROX A4 SIZE PAPER)**
- 3. MAKE A BEAUTIFUL LANDSCAPE ON A4 SIZE PAPER.**



PMSHRI KV LOKRA

Class : VII A+B

Date : 12 October 2026

AUTUMN HOLIDAY HOMEWORK

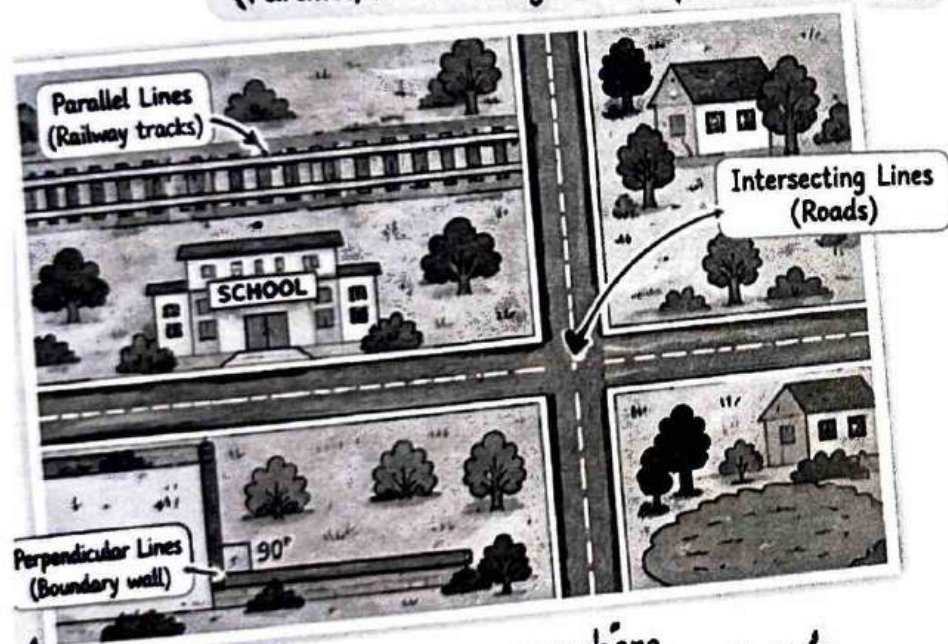
Mathematics



Mini Project

A World of Lines

(Parallel, Intersecting and Perpendicular Lines)



What to do?

- 1 Prepare a neat and colourful mathematics project on an A4 size or chart paper.
- 2 Draw a simple layout of a small town showing roads, railway tracks, buildings and boundary walls.
- 3 Identify and label the following:
 - Parallel Lines (e.g. railway tracks or opposite edges of a road)
 - Intersecting Lines (e.g. two roads crossing each other)
 - Perpendicular Lines (e.g. lines meeting at a right angle of 90°).
- 4 Use a ruler and coloured pencils to make your diagram attractive.
- 5 Write the definitions of all three types of lines.
- 6 Add a short conclusion explaining how these lines are found in our daily lives.

Key Definitions

- **Parallel Lines** : Lines in the same plane that never meet.
- **Intersecting Lines** : Lines that meet at a point.
- **Perpendicular Lines** : Lines that meet at a right angle (90°).

Learning Outcome

Students will understand and identify parallel, intersecting and perpendicular lines through practical examples.

Submission

Submit the completed project after the autumn holidays.

☆ Note :

Keep your work neat, creative and original.

Mathematics is everywhere... Just look around!



13-10-26
(GT)

Holiday Homework

Class 7th B

General Instruction: - Social Science
use diagrams, charts etc.

Q 1. Mark all states and Capitals on India's Political map. (paste Political map of India)

Q 2. Draw five logos of quality standards used in Packed foods, electronic items etc.

Q 3. Activity - Based Assignment

(i) Make a Column/ chart :- The three organs of government and their functions.
(use thin copy / notebook)

(ii) Draw a flowchart :- Union Government
state Government
Local Government

(iii) Local government Survey :-
Identify five services provided by your ~~municipal~~ municipal body or Gram Panchayat.

(iv) Case study :- write about a local problem, such as garbage collection or a damaged road, and explain which local authority could address it!

(v) Poster :- "Responsible Citizens, Strong Democracy".

कक्षा - 07 + A

- ① दुर्गापूजा पर 120 शब्दों में एक निबंध लिखिए
- ② गिरिधर राय की कुंडलिया पाठ से एक कुंडलि कंछुप कीजिए।
- ③ श्रद्धाकालीन अवकाश में आप ने क्या-क्या किया? अवकाश के अंतिम दिन 100 शब्दों में लिखिए।

Autumn Break Holiday Homework 2026-27

Subject: **English** | Class: **VII**

1. **Diary Entry:** Write a diary entry about how you spent the **first day** of your autumn break.
2. **Grammar Activity:** Prepare a chart showing the **four types of sentences** with **two examples** of each.
3. **Art-Integrated Activity:** Prepare a colourful poster on **"Incredible India: Unity in Diversity."** Include pictures or drawings representing the festivals, traditional dresses, languages, and cultures of different Indian states.
4. **Letter Writing:** Write a letter to your friend describing your plans for the autumn vacation.
5. **Collage:** Prepare a collage of **five traditional Indian musical instruments**.
English task: Write the names of the instruments and one sentence about each.

PM SHRI KENDRIYA VIDYALAYA LOKRA
HOLIDAY HOME WORK
CLASS 7 SUBJECT: AI

Answer the following questions:

1. What is the difference between human intelligence and Artificial Intelligence?
2. What is Machine Learning?
3. Explain any three applications of AI in different fields.
4. How can AI help students in their studies?
5. Write any three disadvantages of Artificial Intelligence.

(1) शब्दार्थलेखनम्

निम्नलिखितशब्दानाम् अर्थान् हिन्दीभाषायां लिखत

- (क) पर्यावरणम् (ख) वृक्षः (ग) उत्सवः (घ) परिवारः
(ङ) परस्परम् (च) स्पर्कारः

(2) उचितविकल्पं चित्वा लिखत

(क) 'वृक्षाः' इति पदस्य एकवचनम् अस्ति

- (i) वृक्षम् (ii) वृक्षः (iii) वृक्षौ ।

(ख) 'गच्छति' इति क्रियापदस्य बहुवचनम् अस्ति

- (i) गच्छतः (ii) गच्छन्ति (iii) गच्छसि ।

(ग) 'अहम्' इति सर्वनामपदस्य बहुवचनम् अस्ति

- (i) वयम् (ii) वयम् (iii) तै ।

(घ) 'सुन्दरः' इत्यस्य स्त्रीलिङ्गरूपम् अस्ति

- (i) सुन्दरम् (ii) सुन्दरी (iii) सुन्दरी ।

(3) चित्रवर्णनम् — दुर्गापूजायाः चित्रं निर्माय तस्य विषये पञ्च वाक्यानि लिखत ।

(4) संस्कृते अनुवादं कुरुत

(क) मैं विद्यालय जाता हूँ ।

(ख) सीता पुस्तक पढ़ती है ।

(ग) हम सब खलसे हैं ।

(घ) पेड़ हमें फल देते हैं ।

(ङ) किसान क्षेत्र में काम करता है ।

HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION -
2026-27 - ART EDUCATION -

CLASS 3RD TO 10TH

- 1. MAKE A 3D CRAFT USING BEST OUT OF WASTE. (AVOID TO USE PLASTIC AND THERMOCOAL)**
- 2. . MAKE A BEAUTIFUL GREETING CARD WITH ENVELOPE ON THE THEME OF DIWALI FESTIVAL. (APPROX A4 SIZE PAPER)**
- 3. MAKE A BEAUTIFUL LANDSCAPE ON A4 SIZE PAPER.**

Class VII – Plant Nursery

A. Theory Questions

1. What is a plant nursery? Write any three advantages of raising plants in a nursery.
2. What materials are required to prepare a nursery? Explain the importance of soil, water, seeds and containers.
3. Describe the steps involved in raising seedlings from seeds and explain how to care for them.

B. Project Work

4. Prepare a Mini Nursery: Grow at least five seedlings of any suitable vegetable or flower in small pots, cups or seed trays. Observe them regularly and record their growth for seven days.
5. Nursery Tools Chart: Prepare a chart showing five tools or materials used in a plant nursery. Draw or paste pictures and write one use of each.

Class VIII – Hydroponics

A. Theory Questions

1. What is hydroponics? Explain any three advantages of growing plants using this method.
2. What are the essential requirements for growing plants through hydroponics? Explain

HOLIDAY HOMEWORK (Autumn Break)

Class 7 (Science)

1. Write down five examples of science you observe at home and explain each in one sentence.

Example : A steel spoon becomes hot when left in hot tea.

2. Observe a plant, leaf or insect in your surroundings. Draw it and write five observations. Do not touch or disturb any insect.

3. Make a small poster on : Reduce Plastic and Save electricity.

PM SHRI KENDRIYA VIDYALAYA LOKRA

AUTUMN BREAK

Sub- Social Science

Class - VIII - A, B

1. What do we call the system where one country controls another's land and people?
2. Name any one European power involved in colonial expansion.
3. Mention one reason why European powers started colonising other regions.
4. Which religion did Europeans try to spread through colonisation?
5. Who was the Portuguese explorer that reached India in 1498?
6. Name the system introduced by the Portuguese that required ships to buy passes.
7. In which year did the French establish their trading post in Pondicherry?
8. What military term was used for Indian soldiers trained by the French?

कक्षा -8 A+B

शरद ऋतु अवकाश गृहकार्य

- भारतीय क्षेत्रीय शिल्प से संबन्धित चित्र बनाकर उसके ऊपर लेख लिखो ।
- दशहरा के अवसर पर अपने प्रिय मित्र को एक शुभकामना पत्र भेजें ।
- विशेषण की परिभाषा उसके अंग और भेद की परिभाषा लिखकर उदाहरण भी लिखें ।
- रोज समाचार पत्र से एक समाचार पढ़ें ।

PM SHRI KV LOKRA
AUTUMN BREAK HW
SUBJECT: Science CLASS: 8

1. Solve half yearly question paper.
2. Make notes for chapter 7 (Particulate Nature of Matter)
3. Make a simple tester using battery and wires to check the power
4. Make two innovative and attractive drawings or flashcards on following topics
Reduce e-waste
Save environment/water
Say no to sugar/oil
Best out of waste
No plastic no harm
Eco- friendly habits
5. Read newspaper and paste cutouts of one scientific news and weather news in a scrap book everyday for 10 days.
6. Write one page about the scientist and their discovery who got a nobel prize 2026 in medicine.

PM SHRI KENDRIYA VIDYALAYA, LOKRA
AUTUMN BREAK HOLIDAY HOMEWORK

Subject: Mathematics

Class: VIII

Instructions:

- i) Complete all the questions neatly.
- ii) Do the entire holiday homework in your Mathematics notebook.
- iii) Show all necessary calculations and steps.
- iv) Keep your notebook neat and clean.

1. Smart Shopping and Discounts

Visit a nearby shop or use an advertisement to collect the marked prices of any five items. Assume a discount of 10% on each item. Calculate the discount and selling price of each item. Present your findings in a table.

2. Ratio in Daily Life

The number of boys and girls in a school club is 24 and 36, respectively.

- (a) Write the ratio of boys to girls in its simplest form.
- (b) Find the ratio of boys to the total number of students.
- (c) If 6 more boys join the club, find the new ratio of boys to girls.

3. Proportion and Unitary Method

If 5 notebooks cost ₹150, find:

- (a) The cost of 1 notebook.
- (b) The cost of 8 notebooks.
- (c) How many notebooks can be purchased for ₹450?

Wishing You All a Happy and Blessed Durga Puja! 🌸🪔

Enjoy your holidays and stay happy! 🌸🪔

PM SHRI KENDRIYA VIDYALAYA LOKRA
HOLIDAY HOME WORK
CLASS 8 SUBJECT: AI

Answer the following questions:

1. Explain the working of Artificial Intelligence with suitable examples.
2. What is the difference between Artificial Intelligence and Machine Learning?
3. What is Generative AI? Give two examples.
4. What are the ethical concerns related to the use of Artificial Intelligence?
5. How can we use Artificial Intelligence safely and responsibly? Explain any three points.

पी. एम. श्री केन्द्रीय विद्यालय लोकरा

शरदावकाशस्य गृहकार्यम्

2026-27

कक्षा - अष्टमी

विषयः - संस्कृतम्

(1) अनुच्छेदलेखनम्

अधोलिखितेषु विषयेषु कमपि एकम् अधिकृत्य 60-100 शब्देषु संस्कृते अनुच्छेदं लिखत

(क) पर्यावरणसंरक्षणम्

(ख) मम विद्यालयः

(2) रिक्तस्थानानि पूरयत - उचितैः शब्दैः रिक्तस्थानानि पूरयत ,

(क) दुर्गापूजा अस्माकं प्रमुखः _____ अस्ति , (उत्सवः/समाधिः)

(ख) वयं प्रतिदिनं _____ गच्छामः (विद्यालयम्/पुस्तकम्)

(ग) वृक्षाः अस्मभ्यं _____ यच्छन्ति (फलानि/जलम्)

(घ) छात्राः _____ पठन्ति (पुस्तकानि/फलानि)

(ङ) अस्माकं देशः _____ अस्ति , (भारतः/नदी)

(3) अधोलिखितानि वाक्यानि संस्कृते अनुवादयत ।

(क) राम विद्यालय जाता है ।

(ख) हम प्रतिदिन संस्कृत पढ़ते हैं ।

(ग) वन्ये मैदान में खेलते हैं ।

(घ) भारत हमारा देश है ।

(4) चित्रवर्णनम्

दुर्गापूजायाः चित्रं निर्माय तस्य संस्कृते पञ्च वाक्यानि लिखत ।

Class VIII – Hydroponics

A. Theory Questions

1. What is hydroponics? Explain any three advantages of growing plants using this method.
2. What are the essential requirements for growing plants through hydroponics? Explain the role of water, nutrients, light and air.
3. Differentiate between traditional soil-based farming and hydroponics in terms of growing medium, water use and plant nutrition.

B. Project Work

4. Make a Simple Hydroponics Model: Using a clean plastic bottle or container, prepare a simple demonstration model to show how a plant can grow without soil. Label the plant,

water and growing support. Use a teacher-approved setup and do not add fertilisers or chemicals without supervision.

5. Hydroponics Observation Report: Observe or research a hydroponic system and prepare a one-page report with a labelled diagram, the materials required, the steps involved and two advantages of the system.

HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION -
2026-27 - ART EDUCATION -

CLASS 3RD TO 10TH

- 1. MAKE A 3D CRAFT USING BEST OUT OF WASTE. (AVOID TO USE PLASTIC AND THERMOCOAL)**
- 2. . MAKE A BEAUTIFUL GREETING CARD WITH ENVELOPE ON THE THEME OF DIWALI FESTIVAL. (APPROX A4 SIZE PAPER)**
- 3. MAKE A BEAUTIFUL LANDSCAPE ON A4 SIZE PAPER.**

कक्षा - 9 - A

- ① दशहरा पर 150 शब्दों में निबंध लिखिए
- ② पेरिफोलियो बनाएं
- ③ रानी लक्ष्मी बाई (आंखी की रानी, कविता) का जीवन समय-रेखा बनाइए।

PM SHRI KENDRIYA VIDYALAYA LOKRA

HOLIDAY HOME WORK

CLASS 9 SUBJECT: AI

Answer the following questions:

1. What is Artificial Intelligence? Explain its importance in today's world.
2. What is the AI Project Cycle? Write the names of its five stages.
3. What is the difference between AI, Machine Learning, and Deep Learning?
4. What is data literacy? Why is data important in Artificial Intelligence?
5. What are the ethical issues related to Artificial Intelligence? Explain any three with examples.

कक्षा-9

शरद ऋतु अवकाश गृहकार्य

- रोज समाचार पत्र से एक समाचार पढ़ें ।
- “झाँसी की रानी” कविता में 1857 के प्रथम स्वतन्त्रता संग्राम से संबन्धित अनेक स्थानों के नाम आए हैं । उन नामों को भारतीय मानचित्र पर दिखाएँ ।
- “झाँसी की रानी (रानी लक्ष्मी बाई) का जीवन समय-रेखा ।
- पोर्टफोलियो बनाएँ ।

HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION - 2026-27

SUB: MATHS

CLASS : IX A+B

- 1. REVISE THE CHAPTER 6 AND 7.**
- 2. MAKE FORMULA CHART OF ALGEBRAIC IDENTITIES ON A4 SIZE PAPER.**

PM SHRI KENDRIYA VIDYALAYA LOKRA
Class 9 Science: Autumn Break Homework

Name: _____ Section: _____ Roll No.: _____

Complete this work during the 10-day autumn break, at your own pace. Do the written work in your science notebook. Make every model from **waste material** (cardboard, plastic bottles, bottle caps, newspaper, straws, old CDs, ice-cream sticks, wool, cloth scraps, wire etc). **Thermocol is not allowed**. Add a label card to each model with its title, materials used, and working.

Part A: Written Work (in your notebook)

1. Differentiate between meristematic and permanent tissues. Draw and label parenchyma, collenchyma and sclerenchyma.
2. Differentiate between xylem and phloem. Draw and label a muscle fibre and a nerve cell.
3. Differentiate between distance and displacement, and speed and velocity. Write the three equations of motion.
4. A car starts from rest and reaches 20 m/s in 5 s. Find the acceleration and the distance covered.
5. Differentiate between a true solution, a suspension and a colloid with one example each. Name the method to separate cream from milk, salt from sea water, and ink into dyes.
6. State Newton's three laws of motion with one daily-life example each. What is inertia?
7. A force of 20 N acts on a 4 kg body. Find its acceleration. Why does a gun recoil when fired?
8. Define work, energy and power with formulas and SI units. State the law of conservation of energy.
9. Write the contribution of Dalton, Thomson, Rutherford, Bohr and Chadwick. Describe Rutherford's alpha-particle experiment.

Part B: Models and Activities (waste material only, no thermocol)

Make a label card for each model with its title, materials used and working.

1. **Newton's law model:** Make a balloon rocket (straw, string, balloon) or a Newton's cradle (bottle caps, cardboard, thread). Write which law it shows.
2. **3D atomic model:** Make a Bohr model of any element from hydrogen to argon using cardboard, old CDs or wire rings for orbits, and paper balls, buttons or bottle caps for particles.

Submission

Bring the notebook and all models after the break. Revise your July to October syllabus.

Autumn Break Holiday Homework

Class - 9 (ENGLISH) A+B

1. Select any one poem from your prescribed textbook and write:

- *The title and name of the poet.
- *The central idea of the poem.
- *Two poetic devices, if applicable, with examples.
- *The message of the poem and its relevance to present-day life.

2. Story Writing: Complete the story in about 120 words, giving it a suitable title and moral.

“It was a rainy evening when I noticed a small bag lying near the school gate. I picked it up and...”

3. Topic: The World of Limitless Possibilities

Prepare a colourful and creative poster inspired by the theme of the prose. Your poster should convey the importance of dreams, self-confidence, determination and exploring new opportunities.

PM SHRI K V LOKRA

Autumn Break

Holiday Homework (2026-2027)

Class - 9 (Assamese)

1. তলত দিয়া প্ৰশ্নবোৰৰ '70-100' টো কথাৰ ভিতৰত উত্তৰ লিখা। (Write the question answers of the questions in about 70-100 words)

(ক) অসমৰ খনিজ সম্পদ সম্বন্ধে বিষয়ে চমুকৈ লিখা।
(Write briefly about the mineral resources of Assam.)

(খ) ব্ৰহ্মপুত্ৰ নদীৰ উপত্যকা বিষয়ে চমুকৈ লিখি ব্ৰহ্মপুত্ৰ নদীৰ উপনি তথনৰ নাম লিখা।
(Write briefly about the region of the Brahmaputra River and name five tributaries of the Brahmaputra River)

(গ) মহাপুৰুষ শ্ৰী মন্ত্ৰ সংকলনৰ বিষয়ে এটি লৈকা প্ৰস্তুত কৰা। (Write a short note on "Mahapurush Samanta Samkhar".)

Activity (ক্ৰিয়াকলাপ)

1. অসমৰ মানচিত্ৰখন- সমৰ্পনকৈ- জাকি- মানচিত্ৰখনত জিলাসমূহ উপস্থাপন কৰা- বৰ্ষাই- ব্ৰহ্মপুত্ৰ নদীৰ উপনি ৪খন চাৰাছানত- বহুৱা। (Draw the map of Assam stating its districts and mark any 4 tributaries of the Brahmaputra River.
(Using chartpaper)

2. অসমৰ নিজস্ব পৰম্পৰাগত গীত- নৃত্য- ব্যৱহাৰ- হোৱা- যিকোনো এবিধ বাদ্যযন্ত্ৰ জাকি প্ৰস্তুত কৰা।
(Make a model of any one instrument used in your cultural / traditional dance (using cardboard))

HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION -
2026-27 - ART EDUCATION -

CLASS 3RD TO 10TH

- 1. MAKE A 3D CRAFT USING BEST OUT OF WASTE. (AVOID TO USE PLASTIC AND THERMOCOAL)**
- 2. . MAKE A BEAUTIFUL GREETING CARD WITH ENVELOPE ON THE THEME OF DIWALI FESTIVAL. (APPROX A4 SIZE PAPER)**
- 3. MAKE A BEAUTIFUL LANDSCAPE ON A4 SIZE PAPER.**

Class IX – Introduction to Agriculture

A. Theory Questions

1. What is agriculture? Explain its importance in our daily lives and the economy of India.
2. Explain the major branches of agriculture, such as crop production, horticulture, animal husbandry and agricultural engineering.
3. Differentiate between traditional farming and modern farming. Give at least three differences with examples.

B. Project Work

4. **Agriculture in My Locality:** Visit a nearby farm or interview a farmer with permission. Prepare a report describing the crops grown, agricultural tools used, irrigation methods and major challenges faced by farmers.
5. **Types of Agriculture Chart:** Prepare a chart showing any five major agricultural activities, such as crop cultivation, horticulture, dairy farming, poultry farming and fish farming. Paste or draw pictures and write two lines about each activity.

Submitted by: Sat pal (TGT WE)

PM SHRI KENDRIYA VIDYALAYA LOKRA
Class 10 Science: Autumn Break Homework

Name: _____ Section: _____ Roll No.: _____

Instructions: Complete this work in your science notebook during the autumn break, at your own pace. Draw neat, labelled diagrams wherever asked. Revise the NCERT text and exercises before attempting the questions.

Part A: Short Answer (important board questions)

1. Why is double circulation necessary in human beings? Trace the path of blood through the heart.
2. Differentiate between aerobic and anaerobic respiration. Describe how urine is formed in the nephron.
3. Differentiate between asexual and sexual reproduction. Differentiate between pollination and fertilisation.
4. State the 10 per cent law. What is biological magnification? How does depletion of the ozone layer harm living beings?
5. What is a reflex action? Draw a labelled reflex arc.
6. Write the functions of auxin, gibberellin, cytokinin and abscisic acid. What is phototropism?
7. What is a homologous series? Draw the structural isomers of butane.
8. What is saponification? Explain how soap cleans, and why it does not work well in hard water.
9. Write the reactions of ethanol with sodium, and of ethanoic acid with sodium carbonate. Write the esterification reaction.
10. Explain myopia and hypermetropia with ray diagrams. Name the lens used to correct each.

Part B: Long Answer (with labelled diagrams)

1. Draw and label the human alimentary canal and describe nutrition in human beings.
2. Draw and label the human brain and write the functions of its main parts.
3. Draw and label the human eye and explain the function of each part. How does the eye see near and distant objects?
4. Draw a labelled diagram of the longitudinal section (L.S.) of a flower. Write the function of each part.
5. Draw a labelled diagram of the human female reproductive system. Write the function of the ovary, oviduct, uterus and placenta.

कक्षा-10

शरद ऋतु अवकाश गृहकार्य

- “दुर्गापूजा का आज के समय में औचित्य “ विषय पर निबंध लिखें ।
- दो औपचारिक, दो अनौपचारिक ई-मेल लिखें ।
- दशहरा, दिवाली और बीहू पर शुभकामना संदेश ।
- पोर्टफोलियो बनाएँ ।

पीएम श्री केन्द्रीय विद्यालय, लोकरा
शैक्षणिक अवकाश गृहकार्य - 2026-27

कक्षा - 10 A

- ① दशहरा / दुर्गापूजा पर एक 150 में निबंध लिखिए।
- ② पोर्टफोलियो बनाएं।
- ③ दशहरा पर अपने मित्र को एक बधाई संदेश लिखिए।

HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION - 2026-27

SUB: MATHS

CLASS : X A+B

- 1. WRITE ALL THE FORMULAS IN UNIT TEST COPY.**
- 2. DO ALL THE QUESTIONS OF STATISTICS (MEAN) IN CLASS WORK COPY .**
- 3. DO ALL QUESTIONS OF VOLUMES AND SURFACE AREAS .**

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS – X. SUBJECT - ENGLISH A+B

Read the chapter "THE PROPOSAL" from your textbook and answer the following questions:-

1. What was the objective of Lomov's visit to Chubukov's house?
2. Write a brief character sketch of Lomov. (The Proposal)
3. How did Chubukov's react when Lomov expressed his (2019 C) desire to marry his daughter?
4. How does the argument about Oxen Meadows start?
5. What reasons did Lomov put forward to assert his ownership of Oxen Meadows, despite facing strong opposition from Natalya and her father?
6. Comment on the significance of the title 'The Proposal' in the play. Provide two examples from the play to support your explanation.
7. Engaging in discussions and disputes rarely leads to problem resolution. Support the statement with evidence from the text.
8. Natalya is obstinate and argumentative. Give two examples from the story highlighting her nature.
9. Justify the title of the play 'The Proposal' with reference to the characters and plot.
10. Lomov and Natalya trade charges against each other about the ownership of Meadows. Explain.

B. Read the extracts given below and answer the questions that follow:

"Please don't shout! You can shout yourself hoarse in your own house but here I must ask you to restrain yourself!"

(a) Who is speaking and to whom?

(b) What is the dispute over?

(c) What does the word 'restrain' mean?

12. "Why, you're in evening dress! Well, I never! Are you going to a ball or what? Though I must say you look better...."

(a) Who is speaking and to whom?

(b) Why is the person spoken to in an evening dress?

(c) What does the word, 'ball' mean here?

13. The court? You can take it to court, and all that! You can! I know you; you're on the look-out for a chance to go to court and all that.

(a) Who is the speaker?

(b) What dispute is to be taken to the court?

(c) What does the phrase, 'to be on the look-out for mean?

Questions that follow: 14. Read the extract given below and answer the questions that follow:

"But, please, Stephen Stepanovitch, how can the be yours? Do be a reasonable man! My aunt Grandmother gave the Meadows for the temporary and free use of your grandfather's peasants. The peasants used the land for forty years and go accustomed to it as if it was their own, when happened that...

- a) Who is the speaker of the above lines?
- b) Why did his aunt's grandmother give the meadows?
- c) Why did the peasants treat the land as their own?
- d) What light do these lines throw on the speakers character?

PM SHRI KENDRIYA VIDYALAYA LOKRA

HOLIDAY HOME WORK

CLASS 10 SUBJECT: AI

Answer the following questions:

1. What is the difference between Artificial Intelligence and a fully automatic machine? Give a suitable example.
2. What is a 4Ws Problem Canvas? Explain its four elements.
3. What is the difference between classification and regression in Machine Learning?
4. What is precision in the evaluation of an AI model?
5. In the context of Natural Language Processing (NLP), what is stemming? Find the stem of the word "Studies".

Holiday Home Work class X

Subject- S.S.T

→ Locate and label as directed on map

CLASS X (2025-26) MAP WORK

Subject	Name of the Chapter	List of areas to be located/ labeled/ identified on the map								
History	Nationalism in India	I. Congress sessions: • 1920 Calcutta • 1920 Nagpur • 1927 Madras session II. 3 Satyagraha movements: • Kheda • Champaran • Ahmedabad mill workers III. Jallianwala Bagh IV. Dandi March								
Geography	Resources and Development	Identify Major Soil Types								
	Water Resources	Locating and Labeling: <table><tr><td>• Salal</td><td>☐ Sardar Sarovar</td></tr><tr><td>• Bhakra Nangal</td><td>☐ Hirakund</td></tr><tr><td>• Tehri</td><td>☐ Nagarjun Sagar</td></tr><tr><td>• Rana Pratap Sagar</td><td>☐ Tungabhadra</td></tr></table>	• Salal	☐ Sardar Sarovar	• Bhakra Nangal	☐ Hirakund	• Tehri	☐ Nagarjun Sagar	• Rana Pratap Sagar	☐ Tungabhadra
	• Salal	☐ Sardar Sarovar								
	• Bhakra Nangal	☐ Hirakund								
• Tehri	☐ Nagarjun Sagar									
• Rana Pratap Sagar	☐ Tungabhadra									
	Agriculture	Identify: • Major areas of Rice and Wheat • Largest/Major producer states of Sugarcane, Tea, Coffee, • Rubber, Cotton and Jute								
	Minerals and Energy Resources	Identify: <table><tr><td>Iron Ore Mines Mayurbhanj Durg Bailadila Bellary Kudremukh</td><td>Coal Mines Raniganj Bokaro Talcher Neyveli</td><td>Oil Fields Digboi Naharkatia Mumbai High Bassien Kalol Ankaleshwar</td></tr></table>	Iron Ore Mines Mayurbhanj Durg Bailadila Bellary Kudremukh	Coal Mines Raniganj Bokaro Talcher Neyveli	Oil Fields Digboi Naharkatia Mumbai High Bassien Kalol Ankaleshwar					
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		Locate and label: Power Plants <table><tr><th>Thermal</th><th>Nuclear</th></tr><tr><td> - Namrup - Singrauli - Ramagundam </td><td> - Narora - Kakrapara - Tarapur - Kalpakkam </td></tr></table>	Thermal	Nuclear	- Namrup - Singrauli - Ramagundam	- Narora - Kakrapara - Tarapur - Kalpakkam
Thermal	Nuclear					
- Namrup - Singrauli - Ramagundam	- Narora - Kakrapara - Tarapur - Kalpakkam					
	Manufacturing Industries	- Manufacturing Industries (Locating and labeling only) - Cotton textile Industries: a. Mumbai, b. Indore, c. Surat, d. Kanpur, e. Coimbatore - Iron and Steel Plants: a. Durgapur, b. Bokaro, c. Jamshedpur, d. Bhilai, e. Vijayanagar, f. Salem - Software technology Parks: a. Noida, b. Gandhi- nagar, c. Mumbai, d. Pune, e. Hyderabad, f. Bengaluru, g. Chennai,h. Thiruvananthapuram				
	Lifelines of National Economy	Locating and Labeling a. Major Sea Ports <table><tr><td> - Kandla - Mumbai - Marmagao - New Mangalore - Kochi </td><td> - Tuticorin - Chennai - Visakhapatnam - Paradip - Haldia </td></tr></table> b. International Airports - Amritsar (Raja Sansi-Sri Guru Ram Das ji) - Delhi (Indira Gandhi) - Mumbai (Chhatrapati Shivaji) - Chennai (Meenambakkam) - Kolkata (Netaji Subhash Chandra Bose) - Hyderabad (Rajiv Gandhi)	- Kandla - Mumbai - Marmagao - New Mangalore - Kochi	- Tuticorin - Chennai - Visakhapatnam - Paradip - Haldia		
- Kandla - Mumbai - Marmagao - New Mangalore - Kochi	- Tuticorin - Chennai - Visakhapatnam - Paradip - Haldia					

Note

1. Items of Locating and Labelling may also be given for Identification.
2. The Maps available in the website of Govt. of India may be used.

HOLIDAY HOMEWORK FOR AUTUMN BREAK SESSION -
2026-27 - ART EDUCATION -

CLASS 3RD TO 10TH

- 1. MAKE A 3D CRAFT USING BEST OUT OF WASTE. (AVOID TO USE PLASTIC AND THERMOCOAL)**
- 2. . MAKE A BEAUTIFUL GREETING CARD WITH ENVELOPE ON THE THEME OF DIWALI FESTIVAL. (APPROX A4 SIZE PAPER)**
- 3. MAKE A BEAUTIFUL LANDSCAPE ON A4 SIZE PAPER.**



Better
Notes
Brighter
Future ♥

AUTUMN HOLIDAY HOMEWORK - 2026 -

Mathematics

> Class - XI < A+C

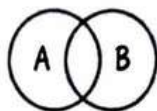


Homework: Preparation of Short Notes Copy

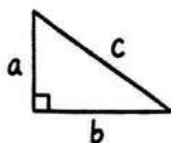
All students of Class XI are instructed to prepare a separate Mathematics Short Notes Copy covering every chapter completed in class so far.

> Chapters to be Covered <

- 1 Sets (Ch. 1)
- 2 Relations and Functions (Ch. 2)
- 3 Trigonometric Functions (Ch. 3)
- 4 Complex Numbers (Ch. 4)
- 5 Binomial Theorem (Ch. 5)
- 6 Sequence and Series (Ch. 6)
- 7 Permutations and Combinations (Ch. 7)



$$\sin^2 \theta + \cos^2 \theta = 1$$



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$z = a + bi$$

$$\binom{n}{r} = \frac{n!}{r!(n-r)!}$$

$$a, ar, ar^2, \dots$$

Instructions



- 1 Write the name of each completed chapter as a heading.
- 2 Include important definitions, concepts, properties and theorems.
- 3 Compile all important formulae, identities and results.
- 4 Include at least two solved examples from each chapter.
- 5 Add relevant diagrams, graphs and tables wherever necessary.
- 6 Keep the notes concise, neat, accurate and well-organised.
- 7 Prepare the notes in your own handwriting.



Submission Deadline

2 November 2026
(Monday)



Objective

To develop systematic note-making habits and facilitate quick revision of important mathematical concepts and formulae before examinations.

Note

The completed short notes copy must be submitted to the Mathematics teacher on or before the specified deadline.

Neatness, accuracy and completeness will be considered during evaluation.

Small
Steps
Big Goals

Happy Holidays!

π



11B+11C (H.H.W.)

So the following questions in your copy.

- Q1. Draw a pie diagram to represent the following information of a family.

Items of Exp.	Food	Education	Housing	Clothing	Misc
% of total exp.	60	15	10	10	5

- Q2. Draw "less than ogive" and 'more than ogive' in the same graph. Also determine the value of median.

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50
No. of Sts.	4	6	8	9	8	5	3	8	5	4

- Q3. Calculate mean, median and mode from the following data.

~~Less than~~ Wages	No. of worker
Less than 200	10
Less than 300	20
Less than 400	40
Less than 500	60
Less than 600	100

Draw deviation bar diagram

Q4.

years	2014	2015	2016	2017	2018
FTB	40	60	-40	20	60

Holiday Homework
Class 11th B
Political Science

General Instruction:-

- Prepare one project file according to given topic.
- The Project should be approximately 20-25 handwritten pages.
- Use A4 size sheets or the prescribed project file.
- Write the Project on your own words.
Include relevant photographs, maps, newspapers cutting, tables, timelines or flow charts.

Topic - Project on

"THE INDIAN CONSTITUTION"

OR

Parliament of India : structure and function.

⇒ Project file format:- in the following order-

Page 1 - Cover Page

- Include:-
- Name of the School
 - Political science project
 - Project topic
 - Student's Name
 - Class and Section
 - Roll Number
 - Session 2026-27
 - Teacher's Name

Page 2 - Certificate

Page 3 - Acknowledgement

Page 4 - Index

Page 5 - Introduction

Page 6-7 objectives of the project

Page 8-20 Main Content

Page 21-22 Analysis and finding

Page 23 Conclusion

Page 24-25 Bibliography and learning outcome

Holiday Homework (Autumn Break)

GEOGRAPHY 11 B

1. Which type of topography is characteristic of limestone or dolomitic region?
2. Lapies landform is formed due to action of which geomorphic agent?
3. Valley sinks are also known as
4. Give an example of depositional landform of glacier.
5. Horns form through headward erosion of
6. West coast of India is an example of coast.
7. Depositional landforms dominate coast.
8. Give an example of erosional landform formed by action of waves and current.
9. Which sand dunes are called barchans?
10. Traverse dunes are aligned to wind direction.

PM SHRI KENDRIYA VIDYALAYA LOKRA

AUTUMN BREAK HOME ASSIGNMENT (2026–27)

Class: XI (Humanities)

Subject: History

General Instructions

1. Complete the homework in your History notebook.
2. Write all answers neatly and in your own words.
3. Complete the creative activity as instructed.

Section A: Short Answer Question

(Answer in 30–50 words.)

Q1. Who were the three orders of medieval European society? Briefly explain their roles.

Section B: Long Answer Question

(Answer in 100–150 words.)

Q2. Explain the main features of feudalism and describe the relationship between lords and peasants in medieval Europe.

Section C: Analytical Question

Q3. How did the growth of towns and trade bring changes to medieval European society?

Section D: Creative Activity

Q4. Prepare a colourful chart on the Three Orders of Medieval European Society—Clergy, Nobility, and Peasants. Mention the main duties and social position of each order.

Submission: Submit your completed homework on the first day after the autumn break.

PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework
Subject: Computer Science
Class: XI A

Solve the sample question paper on your fair copy.



विषय- हिन्दी

कक्षा-11वीं.

विषयाध्यापक- संगीता पारीक

नोट: सभी प्रश्नों के उत्तर संक्षिप्त में हिंदी की नोट बुक में लिखो-

प्रश्न 1- छात्रों तथा अध्यापकों की समस्याएं देखते हुए ट्यूशन पढ़ने की समस्या के लिए क्या समाधान निकाला जाता है अपने विचार लिखिए -

प्रश्न 2- अभिव्यक्ति और मध्यम विभिन्न माध्यमों के लिए लेखन -

क- जनसंचार के तत्व कौन-कौन से हैं लिखिए

ख- संचार के तत्व लिखते हुए मौखिक संचार के बारे में बताइए।

ग- डायरी लिखते समय ध्यान देने योग्य बातें।

प्रश्न 3- एक कविता लिखो जो आपको बहुत पसंद हो, और आपको सबसे अच्छी लगती हो, लेकिन आप की पाठ्य पुस्तक में न हो।

प्रश्न 4- अभिव्यक्ति की क्षमता पर केंद्रित औपचारिक पत्र इन दो विषय पर लिखिए।

क- आपका क्षेत्र भीषण बाढ़ की चपेट में है और प्रशासन कुंभ करनी नींद में सोया है राहत कार्यों तथा अन्य सरकारी मदद की प्राप्ति की ओर ध्यान आकर्षित करते हुए किसी प्रतिष्ठित समाचार पत्र के संपादक को पत्र लिखिए।

ख- वन महोत्सव के दौरान लगाए गए पौधे देख रहे क्या भाव में सुख रहे हैं के संबंध में उद्यान विभाग के मुख्य अधिकारी को उनकी समुचित देखरेख के लिए पत्र लिखें।

प्रश्न 5- निम्नलिखित विषयों में से किसी एक विषय पर रचनात्मक लेखन लिखिए।

1 परीक्षा के दिनों में बढ़ता मानसिक तनाव (छात्र जीवन पर आधारित)

2 बेरोजगारी और युवा

3 विद्यार्थी जीवन में अनुशासन की आवश्यकता

4 पर्यावरण और हम

5 महानगरों में बुजुर्गों की स्थिति

7 यदि मैं अपने देश का प्रधानमंत्री होता हूँ

प्रश्न 6-आपकी अपनी पाठ्य पुस्तक के पाठ- (1) सबसे खतरनाक

(2) घर की याद

(3) चंपा काले अक्षर नहीं चींटी

(4) राजस्थान की रजत बूंदें

(5) गलता लोहा

(6) गज़ल - पाठों के प्रश्न उत्तर याद करने हैं-

प्रश्न 7. डायरी लेखन कथा पटकथा लेखन विषय से संबंधित 10 प्रश्न करें।

KENDRIYA VIDYALAYA, LOKRA
HOLIDAY HOME WORK

DATE : 12.10.2026
SUBJECT : Chemistry

CLASS XI A

Chapter 1: Some Basic Concepts of Chemistry

1. **State the Law of Multiple Proportions** and explain how the oxides of carbon, namely carbon monoxide (CO) and carbon dioxide (CO_2), justify this law.
2. **Differentiate between molarity and molality.** Explain why molality is preferred over molarity in physical chemistry experiments that involve significant temperature variations.
3. **Define empirical formula and molecular formula.** Describe the mathematical relationship between them and explain how the empirical formula of a compound is determined from its mass percentage composition.
4. **Explain the concept of a limiting reagent** in a chemical reaction. How do you identify the limiting reagent when arbitrary amounts of reactants are mixed together?
5. **State the rules for determining significant figures.** Apply these rules to determine the number of significant figures in the values 0.0025 kg and 2.50×10^3 m.

Chapter 2: Structure of Atom

6. **Explain Bohr's radius and energy expressions** for hydrogen-like species. Show how the radius and energy of the first orbit change when moving from a hydrogen atom to a Li^{2+} ion.
7. **Derive the relationship** between the principal quantum number (n) and the frequency of revolution of an electron in a Bohr orbit.
8. **State Heisenberg's Uncertainty Principle.** Explain why this principle is highly significant for microscopic particles like electrons but has no practical significance for macroscopic everyday objects.
9. **Define quantum numbers.** Explain how the azimuthal quantum number (l) and the magnetic quantum number (m_l) specify the shape and spatial orientation of atomic orbitals.
10. **Discuss orbital degeneracy.** Why are the 3s, 3p, and 3d orbitals degenerate in a single-electron hydrogen atom, whereas they have different energies in multi-electron atoms?

Chapter 3: Classification of Elements and Periodicity in Properties

11. **State the Modern Periodic Law** and explain how Henry Moseley's work on X-ray spectra proved that atomic number is a more fundamental property than atomic mass.
12. **Explain the general trend of atomic radius** across a period from left to right and down a group from top to bottom. Discuss the factors responsible for these trends.
13. **Why does chlorine possess a more negative electron gain enthalpy** than fluorine, even though fluorine is the most electronegative element in the periodic table?

14. **Analyze the successive ionization enthalpies** of an unknown element which are (800) , (2427) , (3658) , (25024) , and (32824 kJ/mol) . Deduce the valence shell electronic configuration and the periodic group of this element.
15. **What is a diagonal relationship?** Explain this phenomenon by comparing the chemical behaviors and physical properties of lithium (Group 1) and magnesium (Group 2).

Chapter 4: Chemical Bonding and Molecular Structure

16. Write the lewis dot structure of CO molecule.
17. **Write and calculate formal charge of each atom of ozone.**
18. **Define orbital hybridization.** Describe the step-by-step hybridization process of the central sulfur atom in a sulfur dioxide (SO_2) molecule.
19. **Explain the concept of resonance** using the ozone molecule and carbonate molecule.
20. Write the resonance structures for SO_3 , NO_2 and NO_3^-
21. What is meant by the term bond order" & calculate the bond order of N_2 , O_2 , O_2^+ AND O_2^-

PM SHRI KV LOKRA
AUTUMN BREAK HW
SUBJECT: Biology CLASS: 11A

1. Complete the notebook upto chapter 11 (notes+exercise)
2. Solve one sample paper
3. Complete practical file
4. Prepare chapter 8,9 and 10 for test after break
5. Prepare one chapter for group presentation in the classroom. (2 students each)

Class 11 (Physics) ✓

1. Write the SI unit and symbols of any 10 physical quantities. Also write the dimensions of any three quantities you have studied.
2. Find three examples of motion around you. Describe each as uniform motion ^{or non uniform motion} and explain why.
3. Solve any five simple numerical from the chapters taught so far. Show the formula, substitution and final answer with unit.

4. Make a one-page revision sheet containing five important formulas, three definitions and two diagrams or graphs from the completed chapters.

PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework
Subject: BST
Class: XI C

Solve the question paper.



PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework
Subject: ACCOUNTANCY
Class: XI C

Solve the question paper.



PM SHRI KENDRIYA VIDYALAYA LOKRA

AUTUMN BREAK HOLIDAY HOMEWORK (2026-27)

Class: XII B

Subject: History

Instructions:

1. Answer all the questions in your History notebook.
2. Write answers neatly and in your own words.
3. Use maps and pictures wherever necessary.

Questions

1. Explain the significance of the Champaran Satyagraha, Kheda Satyagraha and Ahmedabad Mill Strike in Mahatma Gandhi's early political career.
2. Why did Mahatma Gandhi launch the Non-Cooperation Movement in 1920? Explain its major features.
3. Describe the main events and significance of the Salt March of 1930.
4. How did Mahatma Gandhi transform the Indian National Movement into a mass movement?
5. Discuss the significance of the Quit India Movement of 1942 in India's struggle for independence.

Map Work:

On an outline map of India, locate and label Champaran, Kheda, Ahmedabad, Dandi and Chauri Chaura.

Submission: After the autumn break.

PM SHRI KENDRIYA VIDYALAYA LOKRA

AUTUM BREAK

Subject - ~~Social Science~~

(Geography)

class - XII - B

1. Name two types of transport systems carrying both passengers and freight.
2. Which type of transport is most suited for large volume bulky materials over long distances within a country?
3. The steam engine invented in the..... revolutionised the transport system.
century
4. Which country accounts for most of the world's motorable road length?
5. The trans-continental Stuart highway connects to
6. The longest highway in India is.....
7. The first public railway line was opened in 1825 between..... and
8. Which country has the highest density of railway network?
9. The channel tunnel joining London and Paris is operated by.....
10. The Qinghai-Tibet train runs for a length of..... Km
11. The Trans-Siberian railways connects which two cities on the East and West.
12. Name four cities through which the orient express line passes through
13. Give an advantage of water transport over other modes of transport.
14. Which is the busiest sea route in the world in respect of foreign trade?
16. After the construction of the distance and time between European countries to South-East Asia has reduced considerably.
17. Name four important ports on the North Pacific sea route.
18. What is the total time taken by the ships to cross the Suez canal?
19. The Volga waterway is navigable for over 11000 km and it drains into.....

Holiday Homework (Autumn Break)

Class 12th B

Political Science

General Instruction: —

1. Prepare one project file according to roll No. on any one topic given below.
2. The Project should be approximately 15-20 handwritten pages and bibliography, excluding the Cover page.
3. Use A4 size sheets or the prescribed project file.
4. Write the Project in your own words. Do not copy the entire content from the Internet.
5. Include relevant photographs, maps, newspaper cutting, tables, timelines or flow charts.
6. Submit the Project on the first working day after the autumn break.

PART A - Roll No 1 to 20

Topic - Project on challenges of Nation Building

OR

International organisation

PART B - Roll No 21 to 38

Topic Project on United Nations and its organisations.

OR

India's External Relations

⇒ Project file format:- in the following order:-

Page 1 - Cover Page

Include:- Name of the School

- Political Science Project / S.S.T Project

- Project topic

- Student's name

- Class and Section

- Roll Number

- Session 2026-27

- Teacher's Name

Page 2 - Certificate

Page 3 - Acknowledgement

Page 4 - Index

Page 5 - Objective of the Project

Pages 6-7 - Introduction and Background

Pages 8-12 - Main Content

Pages 13-15 - Analysis and Findings

Page 16-17 - Pictures, Maps, Charts, or Timeline

Page 18 - Conclusion

Page 19-20 - Bibliography and Learning Outcomes

Indian Economy:-

- Q1. Write the short notes on (i) Organised Sector (ii) Unorganised Sector
- Q2. Discuss measures undertaken by the government to solve the problem of unemployment in India.
- Q3. Discuss the role of NABARD and self Help Group (SHG) as institutional sources of credit.
- Q4. Write about organic farming & its advantage and disadvantage
- Q5. What are the problems facing human capital formation in India.

MACRO ECONOMICS-

- Q1. Distinguish between the fixed exchange rate and floating exchange rate. If exchange rate fall, explain its effects on exports and imports.
 - Q2. Distinguish between current account and Capital account and (b) between autonomous transactions and accommodating transaction of BOP.
 - Q3. What is government budget? Explain its major components.
 - Q4. Describe any two method by which RBI can regulate money supply.
-

PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework
Subject: Informatics Practices

Class - XII C

Solve the two sample question papers on your fair copy.

Question Paper 1:



Question Paper 2:



PM SHRI Kendriya Vidyalaya Lokra

HOLIDAY ASSIGNMENT

Subject: English | Class: XII

Instructions

1. The assignment must be completed in your **Activity Copy**.
2. Submit the assignment on the **specific date**.

1. Report Writing — Fire Accident 120–150 words

You are **Neerja/Nitin**, a reporter with **ABP News India**, posted at Ghaziabad. You are one of the first group of reporters to reach the site of a massive fire in a slum near the Gajraula toll booth. The fire destroyed the entire slum. Write a report for the newspaper, giving details of the **loss of life and damage caused**.

2. Notice Writing — Educational Trip 50 words

Your school is planning to organise an educational trip to **Shimla**. As the school captain of **Rosewood Public School, Guwahati**, draft a notice informing students about the details of the trip. You are **Manoj/Mira**. Mention the **day, date, time and venue**.

3. Formal Invitation — Silver Jubilee Anniversary Formal Card

You are **Veena/Vivek**. You are planning to celebrate your parents' **25th wedding anniversary** in a grand manner. Draft a formal invitation card to be sent to relatives and friends. Include all the necessary details.

4. Formal Reply to an Invitation Formal Reply

You are **Yogita/Yogesh**. You have recently received an invitation from your colleague, **Mita**, to celebrate her milestone promotion. Draft a reply **consenting to attend** the celebration.

5. Letter to the Editor — Lack of Primary Health Centre Letter Writing

You are **Rita/Rohan**. Write a letter to the Editor of **The Times of India, Lucknow**, about your village, which does not have a Primary Health Centre. Sick villagers have to travel long distances to obtain medical help. Many villagers have died due to a lack of timely medical care.

Clues:

- No Primary Health Centre in close proximity.
- Many people have lost their lives and travelling for treatment is time-consuming.
- There is a need to open primary health clinics urgently.

6. Letter to the Editor — Long Power Cuts Letter Writing

As a resident of **16 Shivpuri, Modinagar**, write a letter to the Editor of a local daily newspaper regarding the long power cuts your colony faces every day and the resulting problems experienced by residents.

Clues:

- Frequent and prolonged power cuts; electrical appliances cannot be used.
- Working hours and productivity are disrupted; students' study hours are affected.
- Residents suffer due to heat and humidity; risk of heatstroke.

7. Report Writing — Teachers' Day Celebration 150–200 words

Teachers' Day was celebrated in your school. The function was presided over by the **State Education Minister**. A variety of programmes were organised, and **five retired teachers** were honoured. Write a report on the function. You are **Pritam/Preety**.

8. Article Writing — The Role of Students in Removing Illiteracy 150–200 words

India is standing at the threshold of joining the developed nations, but this goal cannot be achieved until complete literacy is attained in the country. Students can make a significant contribution towards achieving this goal. Write an article on **"The Role of Students in Removing Illiteracy."**

Activity Copy Submission Note: Ensure all answers are neatly handwritten in your English Activity Copy with proper formats, headings, and clear margins before the final submission date.

PM SHRI KENDRIYA VIDYALAYA LOKRA

HOLIDAY ASSIGNMENT

Subject: English | Class: XI (A/B/C)

Q.1. Design a poster in not more than 50 words for your school library on the value of books and good reading habits. You may use slogans.

Q.2. You have to write a speech to be delivered in the Inter School Competition on the topic 'Obesity among school children'. Draft a speech in 120-150 word. Use the following cues.

- i) Fast food chains.
- ii) Harm to human body
- iii) Physical exercises
- iii) Nutrients required for healthy body

Q.3. You are Ram/ Rajani write a debate either for or against the motion: 'Hard work and not only good luck helps us to achieve success in life'. Use the cues given below.

- I) Relentless effort
- IV) Builds resilience and character
- II) Increase confidence
- V) Foster a sense of accomplishment
- III) Supportive environment
- VI) Significant role of luck

Activity Copy Submission Note: Ensure all answers are neatly handwritten in your English Activity Copy with proper formats, headings, and clear margins before the final submission date.

शरदकालीन अवकाश गृहकार्य - 2026-27

पीएम श्री केंद्रीय विद्यालय, लोकरा

विषय- हिन्दी

कक्षा-12वीं.

विषयाध्यापक- संगीता पारीक

नोट: सभी प्रश्नों के उत्तर संक्षिप्त में हिंदी की नोट बुक में लिखो-

प्रश्न 1- श्रम विभाजन और जाति प्रथा विषय पर लेख लिखें संबंधित चित्रों सहित -

प्रश्न 2- अभिव्यक्ति और मध्यम विभिन्न माध्यमों के लिए लेखन -

क- जनसंचार के माध्यम कौन-कौन से हैं लिखिए

ख- उल्टा पिरामिड शैली और सीधा पिरामिड शैली के बारे में बताइए।

ग- टीवी खबरों के विभिन्न चरणों के बारे में लिखिए।

प्रश्न 3- एक कविता लिखो जो आपको बहुत पसंद हो, और आपको सबसे अच्छी लगती हो, लेकिन आप की पाठ्य पुस्तक में न हो।

प्रश्न 4- पत्रकारिता और जनसंचार माध्यम के लिए लेखन विषय पर 20 प्रश्न उत्तर लिखकर लाने हैं।

प्रश्न 5- अप्रत्याशित विषयों में से किसी एक विषय पर रचनात्मक लेख लिखिए।

1 परीक्षा का तनाव और छात्रों की मनोदशा

2 स्मार्टफोन वरदान या अदृश्य बेड़िया

3 प्रकृति से दूर होता हमारा जीवन मान सम्मान शब्दों के खेल हैं

4 बदलते मौसम और हमारा जीवन

5 प्रदूषण मुक्त प्रकृति का सपना कैसा होगा

6 अगर मैं प्रिंसिपल होता

प्रश्न 6-आपकी अपनी पाठ्य पुस्तक के पाठ- (1) कवितावली, लक्ष्मण मूर्छा और राम का विलाप

(2) छोटा मेरा खेत, बगुलों के पंख

(3) श्रम विभाजन और जाति प्रथा, मेरी कल्पना का आदर्श समाज

(4) अतीत में दबे पांव, जूझ, सिल्वर वैडिंग

(5) रुबाइयां, उषा, बादलराग, बात सीधी थी

(6) भक्तिन, बाजार दर्शन, काले मेघा पानी दे

पाठों के प्रश्न उत्तर याद करने हैं-

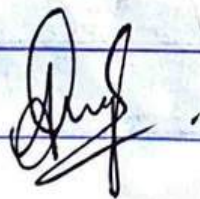
प्रश्न 7. कैसे करें कहानी का नाटक रूपांतरण, विषय से संबंधित 10 प्रश्न करें।

प्रश्न 8. फीचर एवं आलेख पांच-पांच लिखिए।

Class 12 (Physics) ✓

1. Prepare a list of 10 important formulas from the chapters completed so far. Mention the SI unit of each physical quantity wherever relevant.
2. Solve five NCERT numerical from the completed chapters, showing the formula, substitution, and answer with units.
3. Write answers to five short conceptual questions from the completed chapters. Keep each answer within 3-4 lines.
4. Practise any one important derivation and solve five MCQs from the chapters taught so far.

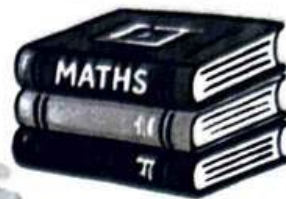
Anna Gurus
PGT Physics.





AUTUMN HOLIDAY HOMEWORK - 2026 -

Small Notes... Big Success!



Better Notes
Brighter Future!

Homework

All students of Class XII are instructed to prepare a separate Mathematics Short Notes Copy covering every chapter completed in class so far.

Good Notes
Build Strong Concepts

Instructions :

- 1 Write the name of each completed chapter as a heading.
- 2 Include important definitions, concepts, properties and theorems.
- 3 Compile all important formulae, identities and results.
- 4 Include at least two solved examples from each chapter.
- 5 Add relevant diagrams, graphs and tables wherever necessary.
- 6 Keep the notes concise, neat, accurate and well-organised.
- 7 Prepare the notes in your own handwriting.

Chapters Include

- Relations and Functions
- Inverse Trigonometric Functions
- Matrices
- Determinants
- Continuity and Differentiability
- Application of Derivatives
- Application of Integrals
- Vectors
- Three Dimensional Geometry (and other completed chapters)



Submission Deadline



**2 November 2026
(Monday)**



Objective

To develop systematic note-making habits and facilitate quick revision of important mathematical concepts and formulae before examinations.



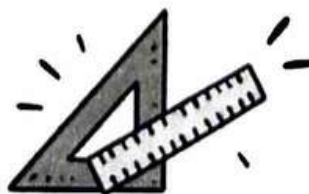
Note

The completed short notes copy must be submitted to the Mathematics teacher on or before the specified deadline.

Neatness, accuracy and completeness will be considered during evaluation.

Mathematics is not just a subject,
it's a way of thinking!

12-10-26
(ST)



Happy Holidays! ☺

KENDRIYA VIDYALAYA, LOKRA
HOLIDAY HOME WORK

DATE : 12.10.2026

CLASS XII A

SUBJECT : Chemistry

1. **Henry's Law:** State Henry's law and write its mathematical expression. Give two important applications.
2. **Raoult's Law:** State Raoult's law for a solution of volatile liquids. How does it differ for a solution containing non-volatile solutes?
3. **Ideal vs. Non-Ideal Solutions:** Differentiate between ideal and non-ideal solutions, and explain positive and negative deviations from Raoult's law with examples.
4. **Colligative Properties:** Define colligative properties. Name the four main colligative properties and explain why molar mass calculated using them is sometimes abnormal.
5. **Van 't Hoff Factor:** Define the Van 't Hoff factor (i) and write the formulas for calculating the degree of dissociation or association of a solute.
6. **Nernst Equation:** Write the Nernst equation for an electrode reaction and a general electrochemical cell. Calculate the EMF of a cell at different concentrations and temperatures.
7. **Order vs. Molecularity:** Distinguish clearly between the order of a reaction and the molecularity of a reaction. Can order be a fractional or zero value?
8. **Integrated Rate Equations:** Derive the integrated rate equations for **zero-order** and **first-order** reactions, and define half-life ($t_{1/2}$) for a first-order reaction.
9. **Collision Theory:** Briefly explain collision theory of chemical reaction rates, highlighting the role of threshold energy and proper orientation. [1, 2, 3, 4]

Inorganic Chemistry

10. **Transition Elements:** Why do transition metals form colored ions and exhibit variable oxidation states? Why are they good catalysts?
11. **Lanthanoid Contraction:** What is lanthanoid contraction? What are its primary consequences (e.g., atomic radii of 4d and 5d series)?
12. **Crystal Field Theory (CFT):** Using Crystal Field Theory, explain the splitting of (d) -orbitals in an octahedral coordination entity. What determines whether a complex is high-spin or low-spin?
13. **Isomerism in Coordination Compounds:** Explain linkage isomerism, ionization isomerism, and optical isomerism with suitable examples from coordination complexes.
14. **Zone Refining & Vapour Phase Refining:** Outline the underlying principles and give one example each for purification of metals via zone refining and vapor phase refining (e.g., Mond's process for nickel, Van Arkel method for zirconium/titanium)

Organic Chemistry

15. **(S_N1) vs. (S_N2) Mechanisms:** Compare (S_N1) (Substitution Nucleophilic Unimolecular) and (S_N2) (Substitution Nucleophilic Bimolecular)

mechanisms in terms of kinetics, stereochemistry (retention vs. inversion), and carbocation stability.

16. **Haloarenes vs. Haloalkanes:** Why are haloarenes much less reactive towards nucleophilic substitution reactions compared to haloalkanes? (Mention resonance effect, sp^2 hybridized carbon, and phenyl cation instability).
17. **Alcohol vs. Phenol Acidity:** Why are phenols more acidic than alcohols? Explain the stability of the phenoxide ion through resonance.
18. **Name Reactions (Aldehydes & Ketones):** Describe the mechanism or give the chemical equations for **Cannizzaro reaction**, **Aldol condensation**, and **Cross-Aldol condensation**.
19. **Distinction Tests:** How do you chemically distinguish between:
 - Primary, secondary, and tertiary alcohols (Lucas test or Victor Meyer's method)?
 - Primary, secondary, and tertiary amines (Hinsberg test)?
 - Acetaldehyde and benzaldehyde (Tollen's or Fehling's test)? [1]
- 20.

Biomutrients & Denaturation: What is the difference between a nucleotide and a nucleoside? What happens chemically to the protein structure during the **denaturation of proteins** (e.g., boiling an egg)

PM SHRI KV LOKRA
AUTUMN BREAK HW
SUBJECT: Biology CLASS: 12A

1. Solve one previous year question paper
2. Select any 10 previous year question papers and solve diagram based questions (mention year; marks and type of question)
3. Complete Investigatory project
4. Prepare one chapter roll no. wise (eg. Roll no.1-chapter 1) for presentation in the classroom.
5. Revise chapter 9, 10 and 11 for monthly test after break

PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework
Subject: Computer Science

Class-~~XI~~ XII - A

Solve the two sample question papers on your fair copy.

Question Paper 1:



Question Paper 2:



PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework
Subject: ACCOUNTANCY
Class: XII C

Solve the question paper.



PM Shri Kendriya Vidyalaya Lokra
Autumn Break Holiday Homework

Subject: BST

Class: XII C

Solve the question paper.

