

पीएम श्री केंद्रीय विद्यालय क्रमांक 1 सागर कैंट

जबलपुर संभाग

सत्र 2026-27

शरदकालीन अवकाश गृहकार्य

(दिनांक 15-10-2026 से 24-10-2026 तक)



शरदकालीन अवकाशीय गृह कार्य
विषय-हिन्दी
कक्षा- 6

1. दस पेज सुलेख लिखें ।
2. अनुच्छेद लेखन -
 - समय का महत्व
 - अनुशासन
3. संवाद लेखन-
 - डॉक्टर और मरीज के मध्य हुई बातचीत ।
 - दुकानदार और ग्राहक के मध्य हुई बातचीत।
4. पत्र लेखन -
 - दो औपचारिक
 - दो अनौपचारिक
5. अर्धवार्षिक परीक्षा प्रश्न- पत्र हल कीजिए।
6. पढ़ाए गए सभी पाठों की प्रश्न- अभ्यास सहित पुनरावृत्ति कीजिए।

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कक्षा- 7

1. पर्यावरण प्रदूषण तथा मेरा शहर विषयों पर 100 शब्दों का अनुच्छेद लिखो।
2. पिताजी का स्थानांतरण होने के कारण टी सी लेने के लिए प्रार्थना पत्र लिखो।
3. अपने छोटे भाई को पढ़ाई का महत्व बताने हुए अपने अध्ययन पर ध्यान रखने के लिए एक पत्र लिखो।
4. कोई 10 मुहावरे व कोई 10 कहावतें लिखो तथा उनका अर्थ लिखते हुए उनका वाक्य प्रयोग करो।
5. कोई 10 शब्दों के विलोम लिखो व याद भी करो।

उक्त सभी कार्य अपनी हिंदी विषय की नोटबुक में ही करना है। अलग से कोई कॉपी बनाने की आवश्यकता नहीं है।



शरदकालीन अवकाशीय गृहकार्य

विषय - हिन्दी

कक्षा - 8



प्रिय विद्यार्थियों *मत बाँधो और नए मेहमान* पाठ्य आधारित गतिविधि संबंधी प्रश्नों के उत्तर लिखने से पूर्व इन पाठों को ध्यानपूर्वक पढ़ें, उसके बाद समझ के आधार पर इन प्रश्नों का उत्तर लिखें।



चरित्र-चित्रण और कल्पनाशीलता (Character & Imagination)

1 "ये सपने ही हैं जो भूमि पर शिल्प का रूप लेकर उसे स्वर्ग बनाते हैं।" इस पंक्ति से प्रेरित होकर आप भविष्य के भारत के लिए क्या सपना देखते हैं? अपने उस सपने को सच करने के लिए आप आज एक विद्यार्थी के रूप में क्या कदम उठा सकते हैं?

2 यदि आप 'विश्वनाथ' (घर के मालिक) की जगह होते और रात के समय अचानक अजनबी मेहमान आपके घर आ जाते, तो आपका व्यवहार कैसा होता? अपनी प्रतिक्रिया को एक छोटे पैराग्राफ में लिखिए।



मेरा सपना
मेरा भारत
महान



परिस्थिति और समस्या समाधान (Situation & Problem Solving)

3 'नए मेहमान' एकांकी उस समय की है, जब मोबाइल फोन या गूगल मैप्स नहीं थे। यदि यह घटना आज के डिजिटल युग (साल 2026) में होती, तो कहानी में क्या बदलाव आता? तकनीक इस समस्या को कैसे सुलझा सकती थी?

4 कवयित्री महादेवी वर्मा ने 'मत बाँधों' कविता में सपनों को 'पंख' लगाने और उन्हें मुक्त छोड़ने की बात कही है। यदि किसी मनुष्य के जीवन से सारे सपने और कल्पनाएँ छीन ली जाएँ, तो उसकी दुनिया कैसी दिखेगी? एक पैराग्राफ में अपनी कल्पना लिखिए।



रचनात्मक लेखन और प्रोजेक्ट (Creative Writing & Projects)

5 पोस्टर/स्लोगन मेकिंग: "बिन बुलाए मेहमान" या "गलतफहमी के शिकार" विषय पर एक मजाकिया या सीख देने वाला पोस्टर बनाइए और एक पंचलाइन (Slogan) लिखिए।

6 अपने जीवन के सबसे बड़े 'सपने' की कल्पना कीजिए और उसे एक रचनात्मक कोलाज (Collage) या पेंटिंग के माध्यम से दर्शाइए। यदि आपके सपनों के 'पंख' होते, तो वे किस रंग के होते और आपको कहाँ ले जाते? इस कलाकृति के साथ 50 शब्दों में एक सुंदर संदेश भी लिखिए कि सपनों को आजाद रखना क्यों जरूरी है।



सपने
आजाद रहेंगे,
तो जीवन
रंगों से भरेगा,
और हम
ऊँचाइयों को
छू पाएँगे।



प्रिय विद्यार्थियों ध्यान रहे कि इन प्रश्नों का उत्तर लिखते समय CHATGPT, AI, GOOGLE या अन्य किसी तकनीकी टूल्स का प्रयोग ना करें।

धन्यवाद
कक्षाध्यापक

शरदकालीन अवकाशीय गृह कार्य
विषय-हिन्दी
कक्षा- 9



द्वितीय आवधिक परीक्षा (नीलपत्र) 40 अंक

कक्षा - नवमी **विषय - हिंदी**

अपठित गद्यांश/ पद्यांश	4 × 4 = 8 अंक
व्याकरण	6 अंक
पठित गद्यांश/ पद्यांश	4 × 4 = 8 अंक
गंगा पाठ्यपुस्तक आधारित प्रश्न-उत्तर	2 × 5 = 10 अंक
रचनात्मक लेखन	
पत्र (औपचारिक अथवा अनौपचारिक)	4 अंक
अनुच्छेद	4 अंक

परीक्षा में पूछे जाने वाले पाठ

(गद्य खंड) क्या लिखूँ संवादहीन ऐसी भी बातें होती हैं (लता मंगेशकर से साक्षात्कार)	(काव्य खंड) भारति, जय, विजयकरे!
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व्याकरण
(उपसर्ग, प्रत्यय, संज्ञा, सर्वनाम, विशेषण, अर्थ के आधार पर वाक्य भेद।)

पढ़ो... समझो... सफल बनो...

1. सभी विद्यार्थी उक्त इमेज में वर्णित सिलेबस के अनुसार पीरियॉडिक द्वितीय की तैयारी करें।
2. संबंधित बताए गए पाठों के प्रश्न उत्तर याद करें।
3. पठित व अपठित गद्यांश और पद्यांश का अभ्यास करें।
4. व्याकरण विषयवस्तु को अच्छे से व ध्यान से अध्ययन करें।
5. पत्र व अनुच्छेद का लिखकर अभ्यास करें।

28 अक्टूबर को होने वाली हिंदी विषय की परीक्षा के लिए अग्रिम शुभाशीष व शुभकामनाएं।

शरदकालीन अवकाशीय गृह कार्य

विषय - हिन्दी | कक्षा - 10



अनुच्छेद लेखन

ग्लोबल वार्मिंग - मनुष्यता के लिए खतरा संकेतः

- ✓ क्या है : ग्लोबल वार्मिंग की परिभाषा
- ✓ कारण : वनों की कटाई, प्रदूषण, जीवाश्म ईंधन का प्रयोग
- ✓ प्रभाव : जलवायु परिवर्तन, समुद्र स्तर में वृद्धि, स्वास्थ्य पर असर
- ✓ समाधान : वृक्षारोपण, नवीकरणीय ऊर्जा, जागरूकता एवं सतत विकास



पत्र लेखन

- बिजली के खुले पैनल बॉक्स -
 - अधिशासी अभियंता, HPL को पत्र
- शिमला प्रवास के लिए मित्र को धन्यवाद पत्र



स्ववृत्त-लेखन

विषय : सौरभ/सुरभि शर्मा - B.Ed (अर्थशास्त्र) शिक्षक पद हेतु बायोडाटा

- शैक्षिक योग्यता : B.Ed, MA (अर्थशास्त्र)
- अनुभव : अध्यापन कौशल, पाठ योजना, छात्र मार्गदर्शन
- कौशल : संवाद क्षमता, समय प्रबंधन, कंप्यूटर ज्ञान



ई-मेल लेखन

विषय : हिंदी पाठ्यपुस्तक हेतु माँग पत्र

- ✓ प्रेषित : व्यापार प्रबंधक, NCERT
- ✓ संदर्भ : कक्षा 10 हेतु हिंदी पाठ्यपुस्तक की उपलब्धता व क्रय संबंधी अनुरोध



विज्ञापन लेखन

निःशुल्क पौध वितरण

- ✓ स्थान : विद्यालय प्रांगण, 20 अक्टूबर 2024, प्रातः 9 बजे
- ✓ नीम, पीपल, तुलसी के 500 पौधे निःशुल्क उपलब्ध
- ✓ पर्यावरण संरक्षण - हमारा संकल्प



शुभकामना लेखन

मित्र ओजस्वी को नाट्य प्रस्तुति हेतु शुभकामना

- ★ प्रिय ओजस्वी, तुम्हारी नाट्य प्रस्तुति के लिए हार्दिक शुभकामनाएँ!
- ★ सफलता, आत्मविश्वास एवं उत्कृष्ट प्रदर्शन की कामना

निर्देश : सभी कार्य स्वच्छ एवं व्यवस्थित रूप में अपनी गृह कार्य कॉपी में करें।
समय सीमा : अवकाश के उपरांत विद्यालय खुलने पर जमा करें।

हिंदी विभाग | कक्षा 10

With best wishes!

PM SHRI KENDRIYA VIDYALAYA NO.1 SAGAR HOLIDAY HOMEWORK ENGLISH (AUTUMN BREAK) - 2026

CLASS - 6 (A, B, C)

1. Task 1. Importance of Sports & Games



2. Task 2. Leave Application



3. Task 3. Paragraph on DIWALI



Class Note: Do your writing work in your English Notebook only under the heading: "Holiday Homework Autumn Break 2026."

CLASS - 7 (A, B, C)

1. Task 1. Article on Swachh Bharat Abhiyan



2. Task 2. Letter to sibling on Sports Day Success



3. Task 3. Bio-sketch of Ruskin Bond

Class Note: Do your writing work in your English Notebook only under the heading: "Holiday Homework Autumn Break 2026."

CLASS - 8 (A, B, C)

1. Task 1. 10 Scientists of India & Inventions



2. Task 2. Paragraph on Child Labour



3. Task 3. Notice for Annual Sports Day



(Vineeta/Vikram)



Class Note: Do your writing work in your English Notebook only under the heading: "Holiday Homework Autumn Break 2026."

CLASS - 9 (A, B, C)

1. Task 1. Poster: Tree Plantation Campaign



2. Task 2. Bio-sketch of Rabindranath Tagore



3. Article: Value Based Education



Respect
Kindness
Values

PREPARED BY:
MAHENDRA GAUTAM & SH. MICHAEL
NATHANIEL (TGT ENGLISH)

संस्कृत गृहकार्य

कक्षा - IX संस्कृत

1. वर्णानां उच्चारणस्थानानि लिखत ।
2. शब्दरूपाणि लिखत - बालक , लता , फल, मुनि, नदी, भवत् , साधु ।
3. धातुरूपाणि लिखत - भू, नम् , गम् , अस् (पञ्च लकारेषु)
4. चित्र-आधारित पञ्चवाक्यानि संस्कृतेन लिखत ।
5. दिनत्रयस्य अवकाशप्राप्त्यर्थं प्राचार्यं प्रति प्रार्थनापत्रं लिखत ।

कक्षा - VIII संस्कृत गृह कार्य

1. संस्कृत प्रतिज्ञा लिखों एवं याद करों ।
2. संस्कृत में 1 से 100 तक गिनती लिखों और याद करों ।
3. निम्नलिखित धातुओं के रूप लट्, लङ्, लृट् लकार में लिखों - कोई 1 (वद, क्रीड, धाव्, गम्, वस्, पठ, भू, खाद, हस्, चर)
4. अपनी संस्कृत पुस्तक से दो चित्र बनाकर 5-5 वाक्य लिखों (संस्कृत में)
5. किम् शब्दरूप तीनों लिंगों (पुल्लिङ्ग, स्त्रीलिङ्ग, नपुंसकलिङ्ग) में लिखों ।

कक्षा - VI संस्कृत

1. निम्नलिखित धातुओं के रूप लट् लकार में लिखो - वद् ,लिख ,खाद , पठ ,धाव
2. अकारान्त शब्दरूप ' राम' के रूप लिखो और याद करो ।
3. आकारान्त ' बालिका' के रूप लिखो और याद करो ।
4. संयुक्त व्यञ्जन कितने होते हैं? नाम लिखो ।
5. संस्कृत में लिङ्ग कितने होते हैं? नाम लिखो ।
6. संस्कृत में विभक्ति कितनी होती है? नाम लिखों ।
7. अकारान्त पुल्लिङ्ग, आकारान्त स्त्रीलिङ्ग , अकारान्त नपुंसकलिङ्ग शब्दों के 5-5 चित्र बनाएं ।

कक्षा - VII संस्कृत

1. संस्कृत प्रतिज्ञा लिखों एवं याद करों ।
2. संस्कृत में 1 से 100 तक गिनती लिखों और याद करों ।
3. निम्नलिखित धातुओं के रूप लट्, लङ्, लृट् लकार में लिखों - (वद, क्रीड, धाव, गम्, वस्, पठ, भू) में से कोई 1
4. निम्नलिखित अव्ययों का वाक्य में प्रयोग करें - यथा, तथा, एव, च, बहिः, अधः, उपरि, पुरा, कुत्र, सहसा
5. किम् शब्दरूप तीनों लिंगों (पुल्लिङ्ग, स्त्रीलिङ्ग, नपुंसकलिङ्ग) में लिखों ।

Autumn Break Holiday Homework

Class 6 Science

- 1) Riya touches a steel spoon and a wooden spoon kept in the same room. The steel spoon feels colder. Are their temperatures different?
- 2) A student measures body temperature using a laboratory thermometer. Is this correct? explain.
- 3) A person's body temperature is 40°C . Is it normal? Explain.
- 4) Why should we not use a clinical thermometer to measure the temperature of boiling water?
- 5) Convert these temperatures in K:-
 - a) 20 degree Celsius
 - b) 35 degree Celsius
 - c) 10 degree Celsius
- 6) **Why do water droplets appear on the outside of a cold glass?**
- 7) Why do we see water droplets on grass early in the morning?
- 8) Why do we feel cool when sweat evaporates from our skin?
- 9) Why does water boil faster in a wide, open vessel than it might in a covered vessel under the same heating conditions?
- 10) student mixes sugar and water. Can filtration separate them? Suggest a suitable method to separate sugar from sugar soln.
- 11) Make a poster on
 - A) Save wildlife save nature.
 - Or
 - B) Save plants save life.

Notebook : Do the homework in your Science notebook and the poster in an A4 paper .

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS 7 SCIENCE - INVESTIGATIONS & ACTIVITIES

1 ORAL HYGIENE PRACTICES



- Gather info from books, newspapers, elders.
- Prepare a report.

2 HEALTHY DIGESTIVE SYSTEM WAYS



- Find out different ways for maintenance.



3 FOODS FOR DIGESTIVE HEALTH



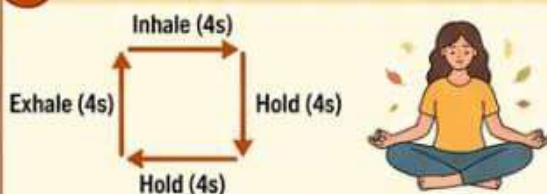
- Suggest food items.
- Make a report, present in class.

4 AIR QUALITY & RESPIRATORY HEALTH



- Define air quality & AQI.
- Effect on respiratory systems of different workers.

5 BOX-BREATHING TECHNIQUE



- Read about the technique (Fig 9.17).
- Its benefits.

6 OLYMPIC RACE SPEEDS



Men/Women (Last 2 Games)		
Event	Winner's Time	Calculated Speed
100m	----	----
300m	----	----
200m	----	----
400m	----	----

- Gather timings
- Calculate & compare speeds.
- Identify fastest event.

7 MEASURING PULSE RATE ACTIVITY



- Design an activity to measure friends' pulse rate (beats per 1 min).

8 PULSE-BASED TIME STORY



- Develop a story where pulse is used to measure time.

9 FIREFLIES STORY



- Have you seen fireflies? Ask elders.
- If absent, find reasons.
- Develop a story.

10 EARTH'S TILT & SEASONS ARTICLE



- What if Earth's tilt increases (extreme seasons)?
- Compare Uranus' tilt and seasons.
- Write an article for newspaper/magazine



HOLIDAY HOMEWORK

शारदकालीन अवकाश गृहकार्य

Subject - SCIENCE

Class - 8



Dear Students, carefully perform the following activities and answer the related questions based on your work and understanding. * DO NOT USE CHATGPT, AI, GOOGLE OR OTHER TECH TOOLS FOR YOUR ANSWERS. Be original!



STATES OF MATTER MODELS (Matter and Interparticle Spacing)

- 1** Design and create simple models (solids, liquids, gases) to show interparticle spacing using clay balls, beads, etc.



ELEMENTS, COMPOUNDS, MIXTURES COMIC (Classification with Real-Life Examples)

- 2** Design and create comic strips from real-life examples to differentiate between elements, compounds, and mixtures with diagrams and illustrate their properties and uses.



DISCOVERY FILES (Presenting Research Findings)

- 3** Search for discoveries of some elements (phosphorus, sodium), compounds (penicillin), and mixtures (brass, bronze, stainless steel). Present your finding. (Phosphorus-Alchemist Brand, Penicillin—Fleming's Mold, etc.)



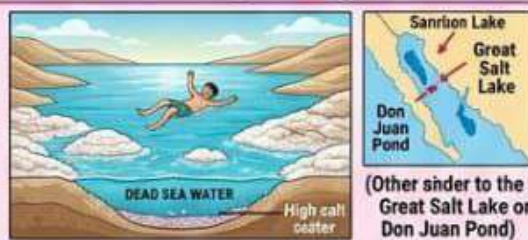
LABEL INVESTIGATION (List and Categorize)

- 4** Let us search: Read labels on items like detergents or snacks, and try to list the mixtures and compounds they contain. (List of Findings: Sodium Bicarbonate, Sodium Lauryl Sulfate, etc.)



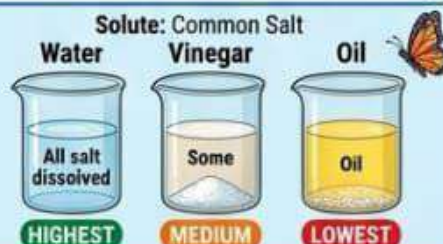
DEAD SEA PROJECT (Why and Where Else?)

- 5** Research project on Dead Sea: Why is there no aquatic life in the Dead Sea? Try to find out if there are any other similar water bodies. (Extreme Salinity, lack of nutrients, etc.)



SOLUBILITY EXPERIMENT (Salt in Different Solvents)

- 6** Interdisciplinary Projects: Investigate how well common salt dissolves in different solvents, such as water, vinegar, and oil. Compare the solubility of salt in each solvent and record your observations.



DEBATE QUESTION (Water - The Ultimate Solvent?)

- 7** Debate in class—Is water truly the most versatile solvent?

- Polarity
- Universal Solvent claim
- Water-water properties
- Universal Solvent
- Polarity, one most properties
- No, it can't dissolve oil at
- More than nature, etc.



**THANK YOU!
CLASS TEACHER**

Holyday Homework

Class – 9th

- Q1. Define-(a) Isotopes (b) Isobars with example.
- Q2. What are the limitations of J.J. Thomson's model of the atom.
- Q3. Compare the properties of electrons, protons and neutrons.
- Q4. What are the limitations of Rutherford's model of the atom.
- Q5. Solve NCERT Exercise questions 1 to 9 (Page No. 158-159).
- Q6. Complete the following table.

Atomic Number	Mass Number	Number of Neutrons	Number of Protons	Number of Electrons	Name of the Atomic Species
9	-	10	-	-	-
16	32	-	-	-	Sulphur
-	24	-	12	-	
-	2	-	1	-	
-	1	0	1	0	



Chapters

Landforms and Life • Oceans and Continents • The Beginnings of Indian Civilisation •
Grassroots Democracy – Part 2: Local Government in Rural Areas



General Instructions:

Complete all activities neatly in your Social Science notebook. Use colours, maps and drawings. Do your work independently.



Activity 1: LANDFORMS AND LIFE

1 Landform Explorer:

Draw or paste pictures of mountains, plateaus, plains and deserts. Write two features of each.



2 Life in Different Landforms:

Choose any two landforms, Make a table comparing people's homes, occupations and daily life there.



Activity 3: THE BEGINNINGS OF INDIAN CIVILISATION

1 Civilisation Detectives:

Mark Harappa, Mohenjo-daro, Dholavira and Lothal on a map of the Indus civilisation.



2 Indus Valley Features:

Draw or paste pictures of any three features of the Indus Valley Civilisation, such as town planning, street drainage system, and seals. Write one sentence about each feature.



Activity 4: GRASSROOTS DEMOCRACY – PART 2: LOCAL GOVERNMENT IN RURAL AREAS

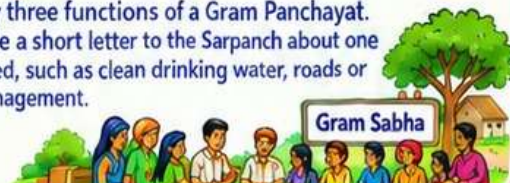
1 Panchayati Raj Chart:

Make a neat chart showing the three levels: Gram Panchayat (village), Panchayat Samiti (block), and Zila Parishad (district). Add the Gram Sabha and explain who takes part in it.



2 Be a Responsible Citizen:

Write any three functions of a Gram Panchayat. Then write a short letter to the Sarpanch about one village need, such as clean drinking water, roads or waste management.



SUBMISSION:

Complete all activities neatly and bring your notebook after the holidays.





PM SHRI K.V. No. 1, Sagar

HOLIDAY HOMEWORK

Class VII – Social Science



Chapters

- The Story of Indian Farming
- Empires and Kingdoms (6th to 10th Centuries)
- India and Her Neighbours



General Instructions: Complete all activities neatly in your Social Science notebook (Activity part only).



Activity 1

The Story of Indian Farming

- **Farming Scrapbook:**

Collect or draw pictures of different types of farming in India.



- **Compare and Contrast:**

Prepare a table comparing traditional and modern farming methods.

- **Farmer's Diary:**

Imagine you are a farmer and write a diary entry describing one day on your farm.

- **Think and Suggest:**

Write five measures to make farming sustainable and conserve water.



Activity 2

Empires and Kingdoms (6th to 10th Centuries)



- **Historical Timeline:**

Create a timeline of important kingdoms that ruled different parts of India during the 6th–10th centuries.

- **Kingdom Fact File:**

Choose one kingdom, such as the Palas, Gurjara-Pratiharas or Rashtrakutas, and write about its rulers, territory and achievements.

- **Monument Study:**

Draw or paste a picture of a monument from this period and write five facts about it.



- **Map Work:**

Mark the approximate regions associated with the Palas, Gurjara-Pratiharas and Rashtrakutas on an outline map of India.

Activity 3

India and Her Neighbours



- **Map Activity:**

Mark India and its neighbouring countries on an outline map of India.

- **Country Profile:**

Select any one neighbouring country and prepare a fact file covering its capital, language, food, festivals and famous places.

- **Culture Connect:**

Compare the food, festivals or traditional dresses of India and one neighbouring country.

- **Peace Poster:**

Create a poster with the slogan "Good Neighbours, Peaceful World."



Submission: Present your work creatively, label maps clearly, and ensure that all activities are completed independently.



PM SHRI K.V. No. 1, Sagar

HOLIDAY HOMEWORK

Class VIII – Social Science



Exploring Society: India and Beyond – Part II

Chapters

World Geography – Some Glimpses • India's Long Road to Independence • A Journey Through Indian Architecture



General Instructions:

Complete all activities neatly in your Social Science notebook (Activity part only).



Activity 1: World Geography – Some Glimpses



1 Map Explorer:

- On a world map, locate and label the seven continents, five oceans, Himalayas, Andes Mountains, Sahara Desert and Amazon River.

2 Nature's Detectives:

- Choose the Himalayas, Thar Desert or Sundarhans. Write its location, importance, five threats and five ways to protect it.

3 Eco-Challenge:

- Choose deforestation, desertification or coral bleaching. Explain causes and effects on plants, animals and humans; suggest five solutions.

4 Geography and Lifestyle:

- Compare any five geographical features in terms of climate, occupations, transport houses and lifestyle in a table.



Activity 2: India's Long Road to Independence



1 Guess the Freedom Fighter:

- Paste or draw a freedom fighter's picture and write five points about their life and contribution.

2 Travel Through History:

- Make a colourful timeline of the Revolt of 1857, formation of the Indian National Congress (1885), Swadeshi Movement (1893), Jallianwala Bagh Massacre (1919), Non Cooperation Movement (1920), Civil Disobedience Movement (1930), Quit India Movement (1947) and Independence (1947).

3 Be a Reporter:

- Write five questions you would ask a freedom fighter and answer them using historical facts.

4 Freedom Through Art:

- Design a poster on "Unity and Sacrifice in India's Freedom Struggle" with a meaningful slogan.



1857

Revolt of 1857

1885

INC Formation

1905

Swadeshi Movement

1919

Jallianwala Bagh Massacre

1920

Non-Cooperation Movement

1920

Civil Disobedience Movement

1942

Quit India Movement

1947

Independence

Activity 3: A Journey Through Indian Architecture

1 Heritage Detective:

- Choose one historical monument from Madhya Pradesh, write its name, location, architectural style, three special features and historical importance.

2 Monument Fact File:

- Choose any three famous Indian monuments. Write their names, locations, approximate construction periods, building materials, architectural features and historical importance. Paste or draw their pictures.

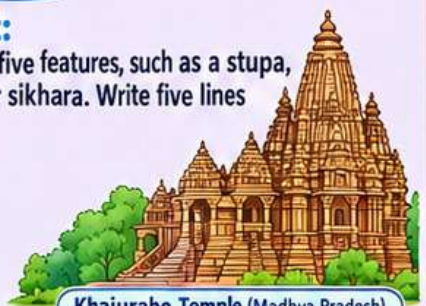
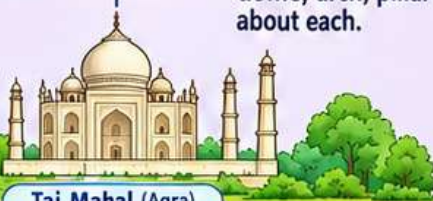
3 Young Architect:

- Draw and label any five features, such as a stupa, dome, arch, pillar or shikhara. Write five lines about each.

Sanchi Stupa (Madhya Pradesh)

Taj Mahal (Agra)

Khajuraho Temple (Madhya Pradesh)



Submission: Complete all activities independently. Use colours, maps, drawings and pictures.

KENDRIYA VIDYALAYA NO. 1, SAGAR

HOLIDAY HOMEWORK

PERIODIC TEST – II (PT-2) SYLLABUS

CLASS IX	SUBJECT: SOCIAL SCIENCE
HISTORY	
• State and Society up to 1000 CE	
GEOGRAPHY	
• Atmosphere and Climate	
POLITICAL SCIENCE	
• Democracy • Elections	
ECONOMICS	
• Building Blocks in Economics: The Problem of Choice	

Instructions: Revise all the above-mentioned chapters thoroughly during the holidays and prepare for PT-2.

Happy Holidays!

KENDRIYA VIDYALAYA NO. 1 SAGAR

HOME WORK

AUTUMN BREAK (2026-27)

SUB: SOCIAL SCIENCE

CLASS –X

Inter disciplinary project: -

Topic:

The making of the Global world .

Globalization and the Indian Economy

Subtopics- The nineteenth century (1815-1914)

to end of Bretton Woods & the beginning of
“Globalisation”.

Production across the countries

☐ Chinese toys in India

☐ World Trade Organisation

☐ The Struggle for a Fair Globalisation

(Do this work in project file)

2. Take the print of this potfolio and complete it.

2. Map work-locate following places on the map of India:

Agriculture: Major areas of Rice and Wheat, largest/Major producer of Sugarcane, Tea, Coffee, Rubber, cotton and Jute,

Mineral and Energy Resources

I.Iron ore mines. II. Coal fields. III. Oil fields. IV. Thermal power plants

V. Nuclear power plants

Manufacturing Industries

i. Cotton Textile Industries:

a. Mumbai b. Indore c. Surat d. Kanpur e. Coimbatore

ii. Iron and Steel Plants:

a. Durgapur b. Bokaro c. Jamshedpur d. Bhilai e. Vijaynagar f. Salem

iii. Software Technology Parks:

a. Noida b. Gandhinagar c. Mumbai d. Pune e. Hyderabad f. Bengaluru

g. Chennai h. Thiruvananthapuram

II. Lifelines of National

Economy

a. Major Sea Ports

- * Kandla • Tuticorin
- * Mumbai • Chennai
- * Marmagao • Visakhapatnam
- * New Mangalore • Paradip
- * Kochi • Haldia

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)

3. Take the print of the potfolio and complete it.

4. Take a printout of this paper and solve it in your notebook.

https://cbseacademic.nic.in/web_material/SQP/ClassX_2026_27/SocialScience-SQP.pdf

https://cbseacademic.nic.in/web_material/SQP/ClassX_2025_26/SocialScience-SQP.pdf



Instructions :

- Do work neatly
- Show all steps
- Use Classwork notebook
- Submit after Break

SECTION – A (MCQ)

- Q. 1 Perimeter of a square of side 9 cm is
(a) 81 cm (b) 36 cm (c) 26 cm (d) 18 cm
- Q. 2 The perimeter of a rectangular notebook is 70 cm, and its breadth is 14 cm. What is its length.
(a) 5 cm (b) 21 cm (c) 28 cm (d) None of these
- Q. 3 The area of square whose perimeter is 16 cm is :
(a) 8cm^2 (b) 4cm^2 (c) 64cm^2 (d) 16cm^2
- Q. 4 What do you call the total boundary length of a closed figure?
(a) Area (b) Perimeter (c) Volume (d) None of these
- Q. 5 Perimeter of regular hexagon :
(a) side $\times$ side (b) $5 \times$ side (c) $6 \times$ side (d) None of these

SECTION – B

- Q. 6 A picture frame is 20 cm long and 15 cm wide, find the length of the ribbon needed to decorate its boundary.
- Q. 7 Define the following : (a) Natural number (b) Whole number (c) Even number (d) Odd number
(e) Prime number (f) Composite number (g) Triangular number (h) Regular Polygon (i) Virahanka number
- Q. 8 Complete the following table for polygon

Number of Sides	Name of regular polygon	Measure of each interior angle	Fig. of polygon
3 Sides			
4 Sides			
5 Sides			
6 Sides			

- Q. 9 A rectangular garden is 25 m long. Its area is 300 sq m. Find its width.
- Q. 10 You have a string of 36 cm. Form: (a) A square (b) An equilateral triangle (c) A regular hexagon
Write the length of a side in each case.

SECTION – C

SUBJECT ENRICHMENT ACTIVITY

Do the following activities in a separate file with colour pen/pencil

11. Home measurement survey: Measure 5 objects at home (door, table, book) and record length and breadth. Find the perimeter and area.
12. Geometric kolam or diya design: Use dots, lines and angles, in keeping with the Diwali season.

Best wishes for the Autumn Break!

Work hard, stay curious, and enjoy the Break!

SUBJECT TEACHER: UMESH KUMAR VALMIKI
TGT MATHS



PM SHRI KENDRIYA VIDYALAYA NO. 1 SAGAR

CLASS- VII

AUTUMN BREAK HOMEWORK (2026-27)

Instructions:

- Do work neatly
- Show all steps
- Use Classwork notebook
- Submit after Break

SECTION A (MCQ)

- Q.1 Two figures are said to be congruent if they have:
(a) The same shape only (b) the same size only (c) the same shape and the same size (d) the same colour and shape
- Q.2 Congruence of plane figures can be verified by:
(a) Superposition (b) Measuring angles only (c) Measuring sides only (d) Comparing colours
- Q.3 In Congruency Symbol $\cong$, the symbol $\sim$ indicates
(a) Same shape (b) same size (c) same shape and same size (d) none of these
- Q.4 Which rule is not use as the criterion for congruency of two triangles?
(a) ASA (b) RHS (c) SSS (d) AAA
- Q.5 In $\triangle DEF$ and $\triangle LMN$, $\angle D = \angle L$, $\angle E = \angle M$, and $DE = LM$. The congruence rule applicable is:
(a) SSS (b) SAS (c) ASA (d) RHS

SECTION B

- Q.6 What do you mean by congruent figures? Give two real-life examples of congruent objects found in your classroom.
- Q.7 Name the congruence criterion used in each case and justify briefly:
(a) Two triangles have sides 5 cm, 7 cm, 9 cm each.
(b) Two triangles have two equal sides and the angle between them equal.
- Q.8 Suppose $\triangle HOT$ is congruent to $\triangle SUN$. List all the other correct ways of expressing this congruence using symbol.
- Q.9 If $\triangle PQR \cong \triangle YZX$, $PQ = 5.4$ cm, $QR = 6.8$ cm, $PR = 7.2$ cm. Find XY , YZ , and XZ without measuring.
- Q.10 In $\triangle MON$ and $\triangle TUE$: $MO = UT = 6$ cm, $ON = TE = 8$ cm, $\angle O = \angle T = 90^\circ$. Name the congruence rule and write the congruence statement.

SECTION C: SUBJECT ENRICHMENT ACTIVITY

Do the following activities in a separate file with colour pen/pencil

- Q.11 Congruent shapes collage: Make a collage using pairs of congruent figures, and mark the matching parts.
- Q.12 Geometric Art with a compass and scale: create a mandala or rangoli using constructed triangles, parallelograms And rhombus, and label angles

AUTUMN BREAK HOLIDAY HOMEWORK

Mathematics | Class 7

Kendriya Vidyalaya - Session 2026-27

Autumn Break: 15 October 2026 to 24 October 2026 (10 days)

Revision of chapters completed before the break (as per the Split-Up Syllabus)

Chapters Covered (for revision)

- Ch 1 - Large Numbers Around Us
- Ch 2 - Arithmetic Expressions
- Ch 3 - A Peek Beyond the Point (Decimals)
- Ch 4 - Expressions Using Letter-Numbers
- Ch 5 - Parallel and Intersecting Lines
- Ch 6 - Number Play
- Ch 7 - Tale of Three Intersecting Lines (Triangles)
- Ch 8 - Working With Fractions

Instructions for Students

1. Attempt one worksheet each day. Do all the work neatly in your Maths notebook.
2. Write the question number and then the complete solution, showing each step.
3. Draw diagrams and graphs with a pencil and ruler wherever needed.
4. Revise the chapter from the textbook before starting that day's worksheet.
5. This is revision work only, based on what has already been taught in class.

Day 1: Large Numbers Around Us

1. Write 7,54,321 in words (Indian system).
2. Write 8,05,00,000 using commas in the International system.
3. Compare using $>$, $<$ or $=$: 9,99,999 ____ 10,00,000.
4. Write the place value of the digit 6 in 4,63,25,107.
5. Round off 78,45,321 to the nearest lakh.
6. Using the digits 3, 0, 8, 5, 1 (each once), write the smallest and the greatest 5-digit number.
7. Write 50,00,000 in the International system.
8. Write 45,67,890 in expanded form.

Day 2: Arithmetic Expressions

1. Simplify using BODMAS: $12 + 6 \times 3 - 4$.
2. Simplify: $48 \div 6 + 3 \times 5 - 2$.
3. Simplify using the distributive property: 25×102 .
4. Simplify: $15 + 5 \times (6 - 2) \div 2$.
5. Simplify: $100 - [20 + \{15 - (10 - 5)\}]$.
6. Simplify: $7 \times 8 + 6 \times 5 - 20 \div 4$.
7. Verify: $18 \times (10 + 3) = 18 \times 10 + 18 \times 3$.
8. Simplify: $(36 \div 4) \times (25 - 15) + 8$.

Day 3: A Peek Beyond the Point (Decimals)

1. Write $\frac{3}{10}$, $\frac{45}{100}$ and $\frac{7}{1000}$ as decimals.
2. Convert 0.75 into a fraction in lowest terms.
3. Arrange in ascending order: 0.7, 0.07, 0.77, 0.707.
4. Add: $12.45 + 3.7 + 0.05$.
5. Subtract: $20.5 - 8.75$.
6. Multiply: 3.6×1.5 .
7. Divide: $7.2 \div 0.8$.
8. Write the place value of the digit 5 in 23.456.

Day 4: Expressions Using Letter-Numbers

1. Write an algebraic expression for 'five more than three times a number x'.
2. If $x = 4$, find the value of $3x + 5$.
3. Identify the terms and the coefficients in $7a - 3b + 2$.
4. Simplify: $4x + 3x - 2x$.
5. Write the expression for the perimeter of a rectangle of length l and breadth b .
6. Add: $3a + 4b$ and $2a - b$.
7. Subtract $5x + 3$ from $8x + 7$.
8. If the cost of one pen is Rs p , write the cost of 12 pens.

Day 5: Parallel and Intersecting Lines

1. Draw two parallel lines cut by a transversal and label a pair of alternate interior angles.
2. Two parallel lines are cut by a transversal. If one angle is 70 degrees, find its corresponding angle.
3. Give two real-life examples of parallel lines and two of intersecting lines.
4. A transversal makes an angle of 110 degrees with one of two parallel lines. Find the co-interior angle.
5. State the difference between parallel lines and intersecting lines.
6. Two parallel lines are cut by a transversal. If one angle is 65 degrees, write the measures of the other angles.
7. How many lines can be drawn through a point parallel to a given line?
8. In a figure, angles 3 and 5 are alternate interior angles. If angle 3 = 80 degrees, find angle 5.

Day 6: Number Play

1. Make a 3×3 magic square using the numbers 1 to 9 and check one diagonal.
2. Find the missing numbers: 4, 9, 16, ____, 36, ____.
3. Write the rule for the pattern 2, 6, 12, 20, 30, ... and find the next term.
4. Test whether 5,313 is divisible by 3 and by 9.
5. Find the digit that makes 4_2 divisible by 3.
6. Write the next two terms: 3, 7, 11, 15, ____, ____.
7. In a magic square the sum of each row is 15. Complete the row: 2, 7, ____.
8. Find the value of the pattern $1 + 2 + 3 + \dots + 10$.

Day 7: Tale of Three Intersecting Lines (Triangles)

1. Construct a triangle with sides 4 cm, 5 cm and 6 cm.
2. Classify a triangle whose angles are 60, 60 and 60 degrees.
3. Can a triangle have angles 90, 90 and 0 degrees? Give a reason.
4. Find the third angle of a triangle whose two angles are 55 and 65 degrees.
5. Construct a triangle with sides 5 cm, 5 cm and 8 cm. What type of triangle is it?
6. A triangle has sides 3 cm, 4 cm and 5 cm. Is it a right triangle?
7. Can a triangle be formed with sides 2 cm, 3 cm and 6 cm? Give a reason.
8. Name the triangle in which (a) all sides are equal, (b) two sides are equal, (c) no sides are equal.

Day 8: Working With Fractions (Part 1)

1. Add: $\frac{2}{5} + \frac{3}{10}$.
2. Subtract: $\frac{7}{8} - \frac{1}{4}$.
3. Multiply: $\frac{3}{4} \times \frac{8}{9}$.
4. Divide: $\frac{5}{6} \div (\frac{10}{3})$.
5. Arrange in ascending order: $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{5}$.
6. A recipe needs $\frac{3}{4}$ cup of sugar. How much sugar is needed for double the recipe?
7. Simplify: $\frac{2}{3} + \frac{1}{6} - \frac{1}{2}$.
8. Convert $\frac{7}{4}$ into a mixed fraction.

Day 9: Working With Fractions (Part 2)

1. Multiply: $\frac{2}{7} \times 14$.
2. Divide: $3 \div (\frac{1}{3})$.
3. A ribbon of length 5 m is cut into pieces of $\frac{1}{4}$ m each. How many pieces are obtained?
4. Find $\frac{1}{2}$ of $\frac{3}{4}$.
5. Compare $\frac{3}{7}$ and $\frac{4}{9}$ using cross multiplication.
6. Ravi ate $\frac{2}{5}$ of a cake and Meena ate $\frac{1}{4}$. Who ate more and by how much?
7. Simplify: $(\frac{2}{3}) \times (\frac{9}{4})$.
8. Write three equivalent fractions of $\frac{2}{5}$.

Day 10: Mixed Revision

1. Simplify using BODMAS: $18 \div 3 + 4 \times 5 - 6$.
2. Convert 0.625 into a fraction in lowest terms.
3. Find the third angle of a triangle with angles 45 and 90 degrees.
4. Add: $\frac{4}{9} + \frac{2}{3}$.
5. Write an expression for 'seven less than twice x'.
6. Write 6,07,45,120 in words.
7. Two parallel lines are cut by a transversal. If one interior angle is 120 degrees, find the other interior angle on the same side.
8. Make a frequency table for: 2, 3, 3, 2, 4, 3, 2, 4.

KENDRIYA VIDYALAYA NO. 1 SAGAR

CHAPTER 07

PROPORTIONAL REASONING-I

(GANITA PRAKASHAN) HOLIDAY H.W. PAPER 2

SUBJECT: MATHEMATICS CLASS : VIII

SECTION – A

Questions 1 to 10 carry 1 mark each.

1. Two hoardings have dimensions (240 cm, 160 cm) and (75 cm, 50 cm). Choose the correct option.
(a) Hoardings are distorted (b) Only heights are proportional
(c) Hoardings are similar (d) Ratios are unequal
2. Which ratio is proportional to 54 : 81?
(a) 4 : 8 (b) 12 : 18 (c) 16 : 27 (d) 20 : 25
3. If 40 kg of pulses are sufficient for 200 people, pulses required for 350 people is
(a) 60 kg (b) 65 kg (c) 70 kg (d) 75 kg
4. A pump fills 1200 litres of water in 24 minutes. Time required to fill 4500 litres is
(a) 80 min (b) 85 min (c) 90 min (d) 96 min
5. If 8 exercise books cost ₹360, cost of 22 books is
(a) ₹950 (b) ₹980 (c) ₹990 (d) ₹1020
6. Which pair of ratios is **NOT** proportional?
(a) 15:20 and 3:4 (b) 21:28 and 6:8 (c) 18:30 and 3:5 (d) 14:21 and 4:7
7. A mixture contains iron and carbon in the ratio 9:1. If carbon is 8 kg, iron is
(a) 64 kg (b) 68 kg (c) 72 kg (d) 80 kg
8. If 1 m³ of sand weighs 1600 kg, weight of 0.35 m³ of sand is
(a) 520 kg (b) 540 kg (c) 560 kg (d) 580 kg

In the following questions 9 and 10, a statement of assertion (A) is followed by a statement of Reason (R). Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

9. **Assertion (A):** If $a:b :: c:d$, then $a = (b \times c)/d$.
Reason (R): This relation follows from cross multiplication.

10. **Assertion (A):** Ratios 84:126 and 4:6 are proportional.
Reason (R): Both ratios reduce to the same simplest form.
-

SECTION – B

Questions 11 to 14 carry 2 marks each.

11. (a) Reduce 168 : 252 to simplest form.
(b) Check whether 14 : 21 is proportional to it.
12. (a) If 18 kg onions cost ₹540, find cost per kg.
(b) Find cost of 26 kg onions.
13. (a) Find total parts in the ratio 13 : 7.
(b) Divide ₹10000 in this ratio.
14. (a) A bus travels 280 km in 4 hours. Find speed.
(b) Distance travelled in 9 hours.

SECTION – C

Questions 15 to 17 carry 3 marks each.

15. (a) Simplify 90 : 135
(b) Simplify 20 : 30
(c) Check whether the two ratios are proportional
16. (a) Total parts in the ratio 11:4
(b) Quantity of first part if total = 150 mL
(c) Quantity of second part
17. (a) A machine produces 720 components in 12 hours. Rate per hour
(b) Components produced in 7.5 hours
(c) Time required to produce 900 components

SECTION – D

Questions 18 carry 5 marks each.

18. A dairy supplies 960 litres of milk in 8 hours.
(a) Milk supplied per hour
(b) Milk supplied in 3 hours
(c) Milk supplied in 15 hours
(d) Time required to supply 1800 litres
(e) Method used

SECTION – E (Case Study Based Question)

Question 19 to 20 carry 4 mark

19. Case Study-1: Community Kitchen Rice Planning

During a flood relief operation, 500 people receive drinking water using 750 litres per day. As more families arrive, the number of people increases to 680. To ensure uninterrupted water supply and equal distribution, the relief coordinator calculates the total quantity of water required using proportional reasoning.



Answer the following Questions:

- Water supplied per person
- Write the proportion
- Water required for 680 people
- Extra water required

20. Case Study-2: Road Construction

A contractor uses 180 tonnes of gravel to construct 300 metres of road. For extending the road to 520 metres with the same width and thickness, the contractor estimates the gravel required using proportional reasoning to avoid shortage and delay.



Answer the following Questions:

- Gravel used per metre
- Write the proportion
- Gravel required for 520 metres
- Extra gravel required

AUTUMN BREAK HOLIDAY HOMEWORK

Mathematics | Class 9

Kendriya Vidyalaya - Session 2026-27

Autumn Break: 15 October 2026 to 24 October 2026 (10 days)

Revision of chapters completed before the break (as per the Split-Up Syllabus)

Chapters Covered (for revision)

- Ch 1 - Orienting Yourself: The Use of Coordinates
- Ch 2 - Introduction to Linear Polynomials
- Ch 3 - The World of Numbers
- Ch 4 - Exploring Algebraic Identities
- Ch 5 - I'm Up and Down, and Round and Round (Circles)
- Ch 6 - Measuring Space: Perimeter and Area
- Ch 7 - The Mathematics of Maybe (Introduction to Probability)
- Ch 8 - Predicting What Comes Next (Sequences and Progressions)

Instructions for Students

1. Attempt one worksheet each day. Do all the work neatly in your Maths notebook.
2. Write the question number and then the complete solution, showing each step.
3. Draw diagrams and graphs with a pencil and ruler wherever needed.
4. Revise the chapter from the textbook before starting that day's worksheet.
5. This is revision work only, based on what has already been taught in class.

Day 1: Orienting Yourself: The Use of Coordinates

1. Plot the points (2, 3), (-2, 4), (-3, -2) and (4, -1) on a graph and name the quadrant of each.
2. Write the coordinates of one point on the x-axis and one point on the y-axis.
3. Find the distance between the points (2, 3) and (2, 8).
4. Find the distance between the origin and the point (3, 4).
5. In which quadrant does the point (-5, 6) lie?
6. Write the coordinates of the reflection of the point (3, -4) in the x-axis.
7. Find the distance between (-1, 2) and (2, -2).
8. The point (0, y) lies on which axis? Give one example.

Day 2: Introduction to Linear Polynomials

1. Identify the terms, coefficients and variables in $5x - 3y + 7$.
2. Find the degree of the polynomial $4x^3 - 2x + 1$.
3. Which of these are linear polynomials: $2x + 5$, $x^2 + 1$, $3x - 7$, 4?
4. Evaluate the polynomial $p(x) = 2x + 3$ at $x = 4$.
5. Find the n th term of the pattern 3, 7, 11, 15, ...
6. Complete the table for $y = 2x + 1$ for $x = 0, 1, 2$ and 3, and plot the graph.
7. Write the slope and the y-intercept of the line $y = 3x - 2$.
8. Two lines have slopes 2 and 2. Are they parallel?

Day 3: The World of Numbers

1. Classify each as natural, integer, rational or irrational: -3 , 0 , $2/5$, $\sqrt{7}$, 5 .
2. Prove that the square root of 2 is irrational.
3. Write the recurring decimal $0.333\dots$ as a fraction.
4. Find two rational numbers between $1/3$ and $1/2$.
5. Express 0.36 as a fraction in lowest terms.
6. State whether the square root of 16 is rational or irrational.
7. Describe how you would represent the square root of 2 on the number line.
8. State whether the decimal expansion of $7/8$ is terminating or non-terminating.

Day 4: Exploring Algebraic Identities

1. Expand $(x + 3)^2$ using an identity.
2. Expand $(2a - 5)^2$.
3. Evaluate 99^2 using an identity.
4. Factorise: $x^2 - 9$.
5. Expand $(x + 2)(x - 2)$.
6. Evaluate 103×97 using an identity.
7. Expand $(a + b)^3$.
8. Factorise: $x^2 + 6x + 9$.

Day 5: I'm Up and Down, and Round and Round (Circles)

1. The perpendicular drawn from the centre of a circle to a chord ____ the chord.
2. Find the length of a chord of a circle of radius 5 cm that is at a distance of 3 cm from the centre.
3. Complete: the angle subtended by an arc at the centre is ____ the angle it subtends at any point on the remaining part of the circle.
4. Find the measure of the angle in a semicircle.
5. In a cyclic quadrilateral, one angle is 70 degrees. Find its opposite angle.
6. Two chords of a circle are each at a distance of 4 cm from the centre. Are they equal in length?
7. The diameter of a circle is 14 cm. Find its radius and the length of the longest chord.
8. An arc subtends an angle of 100 degrees at the centre. Find the angle it subtends at a point on the remaining part of the circle.

Day 6: Measuring Space: Perimeter and Area

1. Find the perimeter of a rectangle of length 12 cm and breadth 8 cm.
2. Find the area of a triangle of base 10 cm and height 6 cm.
3. Find the area of an equilateral triangle of side 4 cm.
4. Find the area of a triangle with sides 3 cm, 4 cm and 5 cm using Heron's formula.
5. Find the circumference of a circle of radius 7 cm.
6. Find the area of a circle of radius 14 cm.
7. Find the area of a sector of angle 60 degrees in a circle of radius 21 cm.
8. The perimeter of a square is 36 cm. Find its area.

Day 7: The Mathematics of Maybe (Probability)

1. Write the sample space when a coin is tossed once.
2. Find the probability of getting a head when a fair coin is tossed once.
3. Find the probability of getting an even number when a fair die is rolled once.
4. Find the probability of getting a number greater than 4 on a die.
5. A bag has 3 red and 5 blue balls. Find the probability of drawing a red ball.
6. Classify each as certain, impossible or likely: (a) the sun rises in the east, (b) getting 7 on a die.
7. Find the probability of drawing an ace from a well-shuffled deck of 52 cards.
8. A die is thrown 100 times and 4 appears 20 times. Find the experimental probability of getting 4.

Day 8: Predicting What Comes Next (Arithmetic Progressions)

1. Find the 10th term of the AP 3, 7, 11, ...
2. Find the common difference of the AP 12, 8, 4, ...
3. Which term of the AP 2, 5, 8, ... is 32?
4. Find the sum of the first 10 terms of the AP 1, 3, 5, ...
5. Find the sum of the first 20 natural numbers.
6. Find the n th term of the sequence 5, 9, 13, 17, ...
7. Is 100 a term of the AP 4, 8, 12, ...? Give a reason.
8. Find the sum of the first 15 terms of the AP 7, 11, 15, ...

Day 9: Sequences and Progressions (Geometric Progressions)

1. Find the common ratio of the GP 3, 9, 27, ...
2. Find the 5th term of the GP 2, 4, 8, ...
3. Find the 6th term of the GP 1, 3, 9, ...
4. Check whether 2, 6, 18, 54 is a GP and find its common ratio.
5. Find the sum of the first 5 terms of the GP 1, 2, 4, ...
6. Find the sum: $1 + 2 + 3 + \dots + 50$.
7. Write the next two terms of the GP 80, 40, 20, ...
8. A pattern of dots grows as 1, 4, 9, 16, ... Find the 10th term.

Day 10: Mixed Revision

1. Find the distance between the points (1, 2) and (4, 6).
2. Find the degree of the polynomial $7x^4 - x + 2$.
3. State whether the square root of 5 is rational or irrational.
4. Evaluate 98^2 using an identity.
5. In a circle, an angle subtended at the centre is 120 degrees. Find the angle at the circumference.
6. Find the area of a triangle with sides 5 cm, 12 cm and 13 cm.
7. Find the probability of getting a prime number when a fair die is rolled once.
8. Find the 12th term of the AP 5, 9, 13, ...

AUTUMN BREAK HOLIDAY HOMEWORK

Mathematics | Class 10

Kendriya Vidyalaya - Session 2026-27

Autumn Break: 15 October 2026 to 24 October 2026 (10 days)

Revision of chapters completed before the break (as per the Split-Up Syllabus)

Chapters Covered (for revision)

- Ch 1 - Real Numbers
- Ch 2 - Polynomials
- Ch 3 - Pair of Linear Equations in Two Variables
- Ch 4 - Quadratic Equations
- Ch 5 - Arithmetic Progressions
- Ch 6 - Triangles
- Ch 7 - Coordinate Geometry
- Ch 8 - Introduction to Trigonometry
- Ch 9 - Applications of Trigonometry
- Ch 10 - Circles
- Ch 11 - Areas Related to Circles
- Ch 12 - Surface Areas and Volumes

Instructions for Students

1. Attempt one worksheet each day. Do all the work neatly in your Maths notebook.
2. Write the question number and then the complete solution, showing each step.
3. Draw diagrams and graphs with a pencil and ruler wherever needed.
4. Revise the chapter from the textbook before starting that day's worksheet.
5. This is revision work only, based on what has already been taught in class.

Day 1: Real Numbers and Polynomials

1. Find the HCF and the LCM of 26 and 91, and verify that $\text{HCF} \times \text{LCM} = \text{product of the numbers}$.
2. Prove that the square root of 5 is irrational.
3. Find the zeroes of $x^2 - 5x + 6$.
4. Find a quadratic polynomial whose zeroes are 3 and -2.
5. If the product of the zeroes of $x^2 - 7x + k$ is 12, find k.
6. Without dividing, state whether $13/125$ has a terminating or a non-terminating decimal expansion.
7. Find the HCF of 96 and 404 by prime factorisation.
8. Find the zeroes of $x^2 - 4$.

Day 2: Pair of Linear Equations in Two Variables

1. Solve: $x + y = 10$ and $x - y = 2$.
2. Solve by substitution: $2x + 3y = 12$, given $x = 3$.
3. For what value of k do $2x + 3y = 7$ and $4x + 6y = k$ have infinitely many solutions?
4. Solve: $3x + 2y = 12$ and $5x - 2y = 4$.
5. Check the consistency of: $x + 2y = 5$ and $3x + 6y = 15$.

6. The sum of two numbers is 35 and their difference is 13. Find the numbers.
7. Solve: $7x + 6y = 3800$ and $3x + 5y = 1750$.
8. Five years ago a father was three times as old as his son. Write a linear equation for this situation.

Day 3: Quadratic Equations

1. Solve by factorisation: $x^2 - 7x + 12 = 0$.
2. Solve using the quadratic formula: $x^2 - 5x + 6 = 0$.
3. Find the nature of the roots of $2x^2 - 4x + 3 = 0$.
4. Find k if $x^2 + kx + 9 = 0$ has equal roots.
5. Solve: $x^2 - 9 = 0$.
6. The product of two consecutive positive integers is 306. Find the integers.
7. Solve: $2x^2 + x - 6 = 0$.
8. Find the roots of $x^2 + 4x + 4 = 0$.

Day 4: Arithmetic Progressions

1. Find the 10th term of the AP 2, 7, 12, ...
2. Find the sum of the first 20 terms of the AP 3, 7, 11, ...
3. Which term of the AP 5, 8, 11, ... is 50?
4. Find the common difference of the AP $\frac{1}{2}, 1, \frac{3}{2}, \dots$
5. Find the sum of the first 15 multiples of 8.
6. The 5th term of an AP is 19 and the 10th term is 39. Find the AP.
7. How many two-digit numbers are divisible by 3?
8. Find the 21st term of the AP -4, -1, 2, ...

Day 5: Triangles

1. State the Basic Proportionality Theorem (Thales theorem).
2. In triangle ABC, DE is parallel to BC, AD = 3 cm, DB = 5 cm and AE = 4.5 cm. Find EC.
3. Two triangles are similar and their corresponding sides are in the ratio 2 : 3. Find the ratio of their areas.
4. Check whether triangles with sides 3, 4, 5 and 6, 8, 10 are similar.
5. In two triangles ABC and DEF, angle A = angle D and angle B = angle E. Name the similarity criterion.
6. The areas of two similar triangles are 81 cm^2 and 49 cm^2 . Find the ratio of their corresponding sides.
7. State the Pythagoras theorem.
8. A vertical pole 6 m high casts a shadow 4 m long. Find the height of a tree that casts a shadow 10 m long at the same time.

Day 6: Coordinate Geometry

1. Find the distance between the points (2, 3) and (5, 7).
2. Find the midpoint of the line segment joining (4, -2) and (-2, 6).
3. Find the distance of the point (-3, 4) from the origin.
4. Find the coordinates of the midpoint of the segment joining (2, 3) and (6, 7).

5. Using the section formula, find the point dividing the segment joining (4, -3) and (8, 5) in the ratio 3 : 1.
6. Find the side lengths to show that (1, 7), (4, 2), (-1, -1) and (-4, 4) form a square.
7. Find the distance between (a, 0) and (0, b).
8. Find the point on the x-axis that is equidistant from (2, -5) and (-2, 9).

Day 7: Trigonometry and Its Applications

1. If $\sin(\theta) = \frac{3}{5}$, find $\cos(\theta)$ and $\tan(\theta)$.
2. Evaluate: $\sin 30^\circ + \cos 60^\circ$.
3. Evaluate: $2 \tan^2(45^\circ) + \cos^2(30^\circ) - \sin^2(60^\circ)$.
4. If $\tan(\theta) = 1$, find θ .
5. Prove: $\sin^2(\theta) + \cos^2(\theta) = 1$.
6. A tower casts a shadow 30 m long when the sun's elevation is 45 degrees. Find the height of the tower.
7. The angle of elevation of the top of a building from a point 20 m away is 60 degrees. Find the height of the building.
8. Evaluate: $\sin 45^\circ / \cos 45^\circ$.

Day 8: Circles and Areas Related to Circles

1. Complete: the tangent at any point of a circle is perpendicular to the ____.
2. The two tangents drawn from an external point to a circle are ____ in length.
3. Find the length of the tangent from a point 10 cm from the centre of a circle of radius 6 cm.
4. Find the area of a sector of angle 90 degrees in a circle of radius 14 cm.
5. Find the length of an arc of a circle of radius 21 cm subtending an angle of 60 degrees at the centre.
6. Find the area of a circle of radius 7 cm.
7. The circumference of a circle is 44 cm. Find its radius.
8. Find the area of a quadrant of a circle of radius 14 cm.

Day 9: Surface Areas and Volumes

1. Find the volume of a sphere of radius 7 cm.
2. Find the total surface area of a cube of side 5 cm.
3. A cylinder has radius 7 cm and height 10 cm. Find its volume.
4. Find the curved surface area of a cone of radius 7 cm and slant height 10 cm.
5. Find the volume of a hemisphere of radius 3.5 cm.
6. Find the volume of a cuboid of dimensions 10 cm x 5 cm x 4 cm.
7. The surface area of a sphere is 154 cm^2 . Find its radius.
8. A cone and a cylinder have the same radius and height. Find the ratio of their volumes.

Day 10: Mixed Revision

1. Find the HCF and the LCM of 12, 15 and 21.
2. Find the zeroes of $x^2 + 7x + 10$.
3. Solve: $2x + y = 8$ and $x - y = 1$.
4. Find the 15th term of the AP 7, 11, 15, ...

5. Find the distance between $(-5, 7)$ and $(-1, 3)$.
6. Evaluate: $\sin 60 \cos 30 + \cos 60 \sin 30$.
7. Find the area of a circle of diameter 28 cm.
8. Find the volume of a cube of edge 6 cm.



PM SHRI KENDRIYA VIDYALAYA NO. 1 SAGAR

CLASS- X

AUTUMN BREAK HOMEWORK (2026-27)

Instructions :

- Do work neatly
- Show all steps
- Use Classwork notebook
- Submit after Break

Q 1. Solve the Math's PT-1 Question paper in your Notebook.

Q 2 Solve the Math's PT-2 Question paper in your note book.

Q 3 Practice all examples of Chapter -1 to Chapter -13

Q 4. Complete your Portfolio given by the class teacher

Q 5. Write Math's Lab Activity in your Math's Lab Activity Note book given by your subject Teacher

Best wishes for the Autumn Break!

Work hard, stay curious, and enjoy the Break!

SUBJECT TEACHER: UMESH KUMAR VALMIKI

TGT MATHS

PM SHRI KENDRIYA VIDYALAYA NO. 1 SAGAR CANTT

HOLIDAY HOMEWORK (Autumn Break)

Subject: Vocational Education Class 6)

Date 14-10-2026

Theme: Makers Skill Project

- 1- Make working model of 1- Propeller Boat
- 2- Rubber band CAR
- 3- Air balloon car (Select minimum any two).

Question 2- Write the answer of given question in separate paper---

Q.1 Multiple Choice Questions / बहुविकल्पीय प्रश्न

A. Which of the following is a vocational skill?/निम्नलिखित में से कौन सा एक व्यावसायिक कौशल है?

- a) Drawing / चित्रकला b) Carpentry / बढईगिरी c) Singing / गाना d) Playing / खेलना

B. Kitchen gardening mainly helps in:/रसोई बागवानी मुख्य रूप से किसमें मदद करती है?

- a) Reducing electricity bills / बिजली बिल कम करने में b) Growing fresh vegetables / ताज़ी सब्ज़ियाँ उगाने में c) Painting walls / दीवारें रंगने में d) None of these / इनमें से कोई नहीं

C. Vermicompost is made using:/वर्मी कम्पोस्ट किससे बनाई जाती है?

- a) Plastic / प्लास्टिक b) Earthworms / केंचुए c) Stones / पत्थर d) Glass / काँच

D. Which tool is used for digging soil?/मिट्टी खोदने के लिए कौन सा औज़ार प्रयोग होता है?

- a) Trowel / खुरपी b) Needle / सुई c) Scissors / कैंची d) Comb / कंघी

E. Seed identification is important because:/बीज की पहचान क्यों महत्वपूर्ण है?

- a) It saves water / यह पानी बचाता है b) It helps in selecting the right seeds / सही बीज चुनने में मदद करता है c) It makes soil hard / मिट्टी को कठोर बनाता है d) None of these / इनमें से कोई नहीं

Q.2 True or False / सही या गलत

Choose the correct option. / सही विकल्प चुनिए।

A. Kitchen gardening reduces household waste. /रसोई बागवानी घरेलू कचरा कम करती है।

B. Tools like hoe and spade are used for cooking. /कुदाल और फावड़े जैसे औज़ार खाना पकाने के लिए उपयोग होते हैं।

C. Earthworms are harmful for making compost. /केंचुए खाद बनाने में हानिकारक होते हैं।

D. Seeds should be stored in moist places./बीजों को नमी वाली जगह पर रखना चाहिए।

E. Harvesting should be done when the crop is mature./कटाई पकी हुई फसल पर करनी चाहिए।

Q.3 Matching / मिलान कीजिए

- A. Watering can
- B. Hoe
- C. Spade
- D. Secateurs
- E. Rake

- 1. Cutting wood / लकड़ी काटना
- 2. Irrigation / सिंचाई
- 3. Trimming branches / शाखाएँ काटना
- 4. Collecting dry leaves / सूखे पत्ते इकट्ठा करना
- 5. Digging soil / मिट्टी खोदना

Q.4-Short Answer Questions / लघु उत्तरीय प्रश्न

4A-What are the materials that you will use for fencing? / बाड़ लगाने के लिए आप किनकरेंगे उपयोग का सामग्रियों किन-?

4B-Name one organic fertilizer. / एक जैविक खाद का नाम लिखिए।

Q. 5 Short Answer Questions / संक्षिप्त उत्तर

Q.1 How do you know when a plant needs water? / आपको कैसे पता चलेगा कि पौधे को कब पानी चाहिए?

Q.2 What is the best time for watering plants? / पौधों को पानी देने का सबसे अच्छा समय क्या है?

Q.3 Which plants can be grown in kitchen garden? / रसोई उद्यान में कौन-कौन से पौधे उगाए जा सकते हैं?

Q.4 How is the soil prepared for sowing or planting? / बुवाई या पौधारोपण के लिए मिट्टी कैसे तैयार की जाती है?

Q.5 How can plants be protected from any kind of harm from animals and pests?

पौधों को जानवरों और कीटों से होने वाले नुकसान से कैसे बचाया जा सकता है?

Q.6 How will you calculate area for kitchen garden? / रसोई उद्यान का क्षेत्रफल कैसे ज्ञात करेंगे?

Q.7 Which materials are used to make vermicomposting normally?

सामान्यतः जाता किया उपयोग का सामग्री सी कौन-कौन में बनाने कम्पोस्ट वर्मी :?

PM SHRI KENDRIYA VIDYALAYA NO.1 SAGAR

CANTT

HOLIDAY HOMEWORK (AUTUMN BREAK)

Subject: Vocational Education (Class VII)

- 1- Prepare portfolio on plant nursery.
- 2- Tie & Dye work -1 On Handkerchief 2- Prepare wall hanging using tie and dye work.
- 3- Write answer of following questions in separate paper.

Q.1 Multiple Choice Questions

Choose the correct answer: / सही उत्तर चुनें:

- A) Which tool is used for digging soil? / मिट्टी खोदने के लिए कौन सा औजार प्रयोग होता है?
a) Rake b) Trowel c) Hoe d) Watering can
- B) Vermicompost is made by: / वर्मी कम्पोस्ट किससे बनता है?
a) Earthworms b) Sand c) Chemical fertilizers d) Pebbles
- C) Which method is used for plant propagation? / पौधों के प्रसार के लिए कौन है होती उपयोग विधि सी-?
a) Cutting b) Grafting c) Layering d) All of these
- D) Ideal temperature for plant nursery is: / पौधशाला के लिए आदर्श तापमान है:
a) 5–10°C b) 15–30°C c) 35–45°C d) 0–5°C
- E) Which seed is commonly used in kitchen gardening? / रसोई बागवानी में कौन है प्रचलित बीज सा-?
a) Wheat b) Spinach c) Mustard oil d) Rubber
- F) Harvesting means: / फसल काटने का अर्थ है:
a) Sowing b) Cutting ripe crops c) Watering d) Weeding

Q.2 True or False / सत्य या असत्य

- A) Vermicompost is a chemical fertilizer. / वर्मी कम्पोस्ट रासायनिक खाद है।
- B) Pruners are used for trimming plants. / पौधों को काटने के लिए प्रूनर का प्रयोग होता है।
- C) Plants can survive without sunlight. / पौधे बिना धूप के जीवित रह सकते हैं।
- D) Kitchen gardening saves money. / रसोई बागवानी से पैसे बचते हैं।
- E) Harvesting is done before plants mature. / फसल परिपक्व होने से पहले काटी जाती है।

Q.3 Fill in the blanks रिक्त स्थान भरिए

- A) The process of cutting mature crops is called _____. / परिपक्व फसल काटने की प्रक्रिया _____ कहलाती है।
- B) _____ are used to water the plants. / पौधों को पानी देने के लिए _____ का उपयोग किया जाता है।
- C) _____ is the best time for watering plants. / पौधों को पानी देने का सबसे अच्छा समय _____ है।
- D) Seeds should be _____ before sowing. / बीज बोने से पहले _____ चाहिए।
- E) _____ is used to protect plants from excess sunlight. / पौधों को अधिक धूप से बचाने के लिए _____ का प्रयोग किया जाता है।

Q.6 What methods of plant propagation are used in the nursery?

Q.7 How do you ensure that plants receive the right amount and duration of sunlight?

Q.8 What methods do you use to provide shade for plants?

Q.9 How do you make sure that plants receive the right amount of water?

Q.10 How will you calculate area for kitchen garden

Q.12- What kind of shade-net or clothes did you use to provide shade to the plants?

Q.13 Draw any two gardening tools with name and write their uses. ?

Q.14 How to prepare vermicomposting? Write in steps and also draw some diagrams.?

PM SHRI KENDRIYA VIDYALAYA NO.1 SAGAR

CANTT

HOLIDAY HOMEWORK (AUTUMN BREAK)

Subject: Vocational Education (Class VIII)

- 1- Prepare portfolio file about Hydroponics.
- 2- Study about electronic components and prepare simple circuit on breadboard.
- 3- Write the answer of following questions in separate paper--

Q1. Which of the following tools is used to loosen soil and remove weeds?

A) Spade B) Hand cultivator C) Garden trowel D) Watering can

2. What is the function of a watering can in the garden?

A- Watering Can B) Removing weeds C) Watering plants D) Mixing manure

3. Which of the following should be used to protect hands while gardening?

A) Gardening shears B) Gloves C) Mulch D) Seeds

4. What is the main purpose of using organic manure?

A) To protect plants from insects B) To enhance plant growth C) To remove weed

D) To prepare the soil

5. Neem leaves are used in the garden to prepare:

A) Mulch B) Organic pesticide C) Compost D) Manure

6. What is the recommended time to water plants?

A) Early morning or late afternoon B) Midday C) Evening D) Night

7. What should be used to retain moisture and suppress weed growth?

A) Gardening gloves B) Mulching materials C) Manure D) Pesticide

8. Vermicomposting is primarily made from:

A) Inorganic waste B) Red earthworms and organic waste

C) Man-made chemicals D) Plastic waste

9. What is the function of plant labels?

- A) To mark the date of planting B) To water plants
- C) To identify pests D) To fence the garden

10. What should be done to remove harmful insects from plants?

- A) Add more soil B) Spray organic pesticide
- C) Water the plants daily D) Apply more fertilizer

Q11. Why did you use an aerator in the DWC?

Q.12 How can plants be protected from any kind of harm from animals and pests?

Q.13 What is the best timing for watering plants and why?

Q.14 What is hydroponics method of growing plants.

Q.15 Draw five gardening tools with name and write their uses.

Q.16 How to prepare vermicomposting? Write in steps and also draw some diagrams.

Q.17 Describe NFT hydroponic system.

Q.18 Describe DWC or Bucket Method of hydroponic system.

Q19. Name any three things that you learnt while setting up the hydroponic system.

Q20. What are the advantages and disadvantages of the hydroponics system?

Q.21- How will you prepare compost tea.

PM SHRI KENDRIYA VIDYALAYA NO.1 SAGAR CANTT

HOLIDAY HOMEWORK (AUTUMN BREAK)

Subject: Vocational Education (ClassIX)

1- Prepare portfolio on Agricultural practices.

2- Prepare flower pot using waste water bottle having flower design /Any decorative item. . (Shaping material)

3-Prepare clay model fruit basket .(Shaping material)

Multiple Choice Questions.

1. **Why should we use tools carefully?**
A) To avoid injury B) To lose them C) To break them D) To waste time
2. **Which of these is a tool?**
A) Hammer B) Banana C) Shirt D) Pillow
3. **What should we do before using a tool?**
A) Check it is safe B) Throw it C) Hide it D) Break it
4. **Which item helps us measure length?**
A) Measuring tape B) Spoon C) Cup D) Brush
5. **Where should tools be kept after use?**
A) In a safe place B) On the floor C) In water D) In the road
6. **What should we wear to protect our hands during some tasks?**
A) Safety gloves B) Sandals C) A tie D) A cap
7. **Why is teamwork useful?**
A) People can help each other B) It creates confusion
C) It wastes all materials D) It stops work
8. **What should we do if we see danger at work?**
A) Tell the teacher or supervisor B) Ignore it C) Run while carrying tools D) Hide it
9. **Which habit keeps a workplace clean?**
A) Putting waste in a bin B) Throwing waste on the floor
C) Spilling water D) Leaving tools everywhere
10. **Which quality is important at work?**
A) Punctuality B) Carelessness C) Laziness D) Dishonesty

Short answer type questions

Q1. What is a raw material?

Q2. What is shaping material?

Q3. What is precision farming?

Q4. Name any two measuring tools.

Q5. What is a technical drawing?

CLASS 9 – MADHURIMA

Chapter 1: Introduction to the History of Arts

A. One-Word Questions with Answers

1. Who wrote the Natya Shastra?

Answer: Bharata Muni

2. What is the physical form of cultural heritage called?

Answer: Tangible

3. What is cultural heritage passed down through oral traditions called?

Answer: Intangible

4. Which ancient civilisation is associated with the bronze figurine known as the Dancing Girl?

Answer: Indus Valley Civilisation

5. Which famous caves are known for their ancient murals?

Answer: Ajanta

6. What is a painting made directly on a wall called?

Answer: Mural

7. Which ancient Indian text deals with drama, dance and music?

Answer: Natya Shastra

8. What do we call objects and monuments inherited from the past?

Answer: Heritage

9. What is the traditional art of telling stories through performance called?

Answer: Storytelling

10. Which metal was used to make the famous Dancing Girl figurine?

Answer: Bronze

B. True or False

1. Cultural heritage includes both tangible and intangible elements. **Answer: True**

2. Folk songs can be a form of intangible cultural heritage. **Answer: True**

3. The Dancing Girl figurine was made of plastic. **Answer: False**

4. Ajanta is famous for its ancient murals. **Answer: True**

5. The Natya Shastra is associated with Bharata Muni. **Answer: True**

6. Cultural traditions cannot be passed from one generation to another. **Answer: False**

7. Historical monuments help us understand the past. **Answer: True**

8. Music, dance, theatre and visual arts are all forms of art. **Answer: True**

Chapter 2: The Stage Is Yours

A. One-Word Questions with Answers

1. What is the place where a play is performed called?

Answer: Stage

2. What is a person who performs a role in a play called?

Answer: Actor

3. What is the written text of a play called?

Answer: Script

4. Who directs the actors and guides the performance?

Answer: Director

5. What do we call the people who watch a performance?

Answer: Audience

6. What is the art of performing a role called?

Answer: Acting

7. What are objects used by actors during a performance called?

Answer: Props

8. What is the clothing worn by actors called?

Answer: Costume

9. What do we call the spoken words of a character in a play?

Answer: Dialogue

10. What is the place behind the stage where actors prepare called?

Answer: Greenroom

B. True or False

1. A stage is a place where a performance takes place. **Answer: True**

2. Actors help bring characters to life. **Answer: True**

3. A script contains the dialogues of a play. **Answer: True**

4. The audience performs all the roles in a play. **Answer: False**

5. Props can help communicate the story of a play. **Answer: True**

6. Costumes have no role in identifying characters. **Answer: False**

7. A director helps organise the performance. **Answer: True**

8. Facial expressions and body language are important in acting. **Answer: True**

9. Dialogue means the lighting arrangement on a stage. **Answer: False**

10. Theatre can communicate ideas and emotions. **Answer: True**

Chapter 6: Music and Us

A. One-Word Questions with Answers

1. What is the organised arrangement of sounds called?

Answer: Music

2. What do we call music passed down through generations within a community?

Answer: Folk music

3. What type of music follows established musical traditions and techniques?

Answer: Classical music

4. What is music created for films called?

Answer: Film music

5. What is music widely enjoyed by the general public often called?

Answer: Popular music

6. What is a person who sings called?

Answer: Singer

7. What is a person who composes music called?

Answer: Composer

8. What is the main recurring part of a song, often repeated after verses, called?

Answer: Chorus

9. What do we call the words of a song?

Answer: Lyrics

10. What is a group of singers called?

Answer: Choir

11. What is the pleasant quality or character of a musical sound called?

Answer: Timbre

12. What do we call music performed without singing?

Answer: Instrumental

B. True or False

1. Music can express feelings and emotions. **Answer: True**

2. Folk music is often connected with the culture and traditions of a community. **Answer: True**

3. Classical music and popular music are exactly the same in every respect. **Answer: False**

4. Film music can help create the mood of a scene. **Answer: True**

5. Lyrics are the words of a song. **Answer: True**

6. A composer creates or writes music. **Answer: True**

7. Music genres never influence one another. **Answer: False**

8. Music can be performed using voices and instruments. **Answer: True**

9. Instrumental music always requires singing. **Answer: False**

10. Music can be used to celebrate festivals and special occasions. **Answer: True**

11. The chorus of a song is often repeated. **Answer: True**

12. Music has no connection with culture or society. **Answer:** False

PM SHRI KENDRIYA VIDYALAYA NO. 1, SAGAR CANTT

AUTUMN BREAK HOMEWORK

ARTIFICIAL INTELLIGENCE (AI)

CLASS VI – AI HOMEWORK

General Instructions for All Classes:-

1. Write the homework neatly in the AI/Computer notebook.
2. Complete all written questions in your own words.
3. Draw diagrams and use colours wherever required.
4. Do not copy answers blindly from the internet or AI tools.
5. Bring the completed homework on the first working day after the autumn break.

Q1. Answer the following questions.

1. What is Artificial Intelligence (AI)?
2. What is the difference between a human and a machine?
3. What is an AI-enabled voice assistant? Give two examples.
4. Write any three advantages of AI.

Q2. Activity Work.

Make a table of five examples of AI used at home, school, or in the market.

Q3. Think and Answer.

Can a computer think and learn like a human?

Write your answer in 3–4 sentences.

Happy Autumn Break!

Learn, Explore and Create with AI.

PM SHRI KENDRIYA VIDYALAYA NO. 1, SAGAR CANTT

AUTUMN BREAK HOMEWORK

ARTIFICIAL INTELLIGENCE (AI)

CLASS VII– AI HOMEWORK

General Instructions for All Classes:-

1. Write the homework neatly in the AI/Computer notebook.
2. Complete all written questions in your own words.
3. Draw diagrams and use colours wherever required.
4. Do not copy answers blindly from the internet or AI tools.
5. Bring the completed homework on the first working day after the autumn break.

Q1. Answer the following questions.

1. What is Artificial Intelligence? Give four examples.
2. What is the AI Project Cycle?
3. Name and explain the five stages of the AI Project Cycle.

Q2. Activity Work

Identify one problem in your school that AI could help solve. Write:

- Problem statement
- People affected by the problem
- Data required
- Possible AI-based solution

Q3. Think and Answer

Why should we not share personal information with AI applications without proper care?

Happy Autumn Break!

Learn, Explore and Create with AI.

PM SHRI KENDRIYA VIDYALAYA NO. 1, SAGAR CANTT

AUTUMN BREAK HOMEWORK

ARTIFICIAL INTELLIGENCE (AI)

CLASS VIII – AI HOMEWORK

General Instructions for All Classes:-

1. Write the homework neatly in the AI/Computer notebook.
2. Complete all written questions in your own words.
3. Draw diagrams and use colours wherever required.
4. Do not copy answers blindly from the internet or AI tools.
5. Bring the completed homework on the first working day after the autumn break.

Q1. Answer the following questions.

1. Define Artificial Intelligence and write four real-life applications.
2. What is problem scoping? Explain the 4Ws Problem Canvas.
3. Differentiate between training data and testing data.
4. What is machine learning? Give two examples.
5. What is Natural Language Processing (NLP)?
6. What is computer vision? Give three examples.

Q2. Activity Work

Create a flowchart of the AI Project Cycle.

Q3. Practical Thinking

Suppose you want to develop an AI system to identify waste as biodegradable and non- biodegradable. Write:

- The problem statement
- Data required
- How the AI system will work
- Two possible benefits
- Two limitations or risks

. Happy Autumn Break!
. Learn, Explore and Create with AI.

**PM SHRI KENDRIYA VIDYALAYA NO. 1,
SAGAR CANTT**

**AUTUMN BREAK HOMEWORK
ARTIFICIAL INTELLIGENCE (AI)
CLASS IX – AI HOMEWORK**

General Instructions for All Classes:-

1. Write the homework neatly in the AI/Computer notebook.
2. Complete all written questions in your own words.
3. Draw diagrams and use colours wherever required.
4. Do not copy answers blindly from the internet or AI tools.
5. Bring the completed homework on the first working day after the autumn break.

Answer the following questions.

1. How do metrologists use statistics in weather forecasting?
2. Differentiate between data privacy and data security with examples.
3. Define AI, ML and DL. Also state the relation among them.
4. Explain Steps in NLP:
5. How does AI recognize patterns, and why is this important?

**Please write all the given questions in
your notebooks and read them carefully.**

Happy Autumn Break!

Learn, Explore and Create with AI.

PM SHRI KENDRIYA VIDYALAYA NO. 1, SAGAR CANTT

AUTUMN BREAK HOMEWORK ARTIFICIAL INTELLIGENCE (AI) CLASS X– AI HOMEWORK

General Instructions for All Classes:-

1. Write the homework neatly in the AI/Computer notebook.
2. Complete all written questions in your own words.
3. Draw diagrams and use colours wherever required.
4. Do not copy answers blindly from the internet or AI tools.
5. Bring the completed homework on the first working day after the autumn break.

Q1. Mention some applications of Natural Language Processing.

Q2. What are stop words? Explain with the help of examples.

Q3. Explain how AI can play a role in sentiment analysis of human beings?

Q.4 What is the role of pixels in digital images?

Q.5 Identify which metric (Precision or Recall) is to be used in the following cases and why?

- a. MailSpamming
- b. GoldMining
- c. ViralOutbreak

Happy Autumn Break!

Learn, Explore and Create with AI.

HOLIDAY HOME WORK AUTUMN BREAK (2026-27)

SUB: CHEMISTRY

CLASS :- XII

- Q.1.** Write :- (i) Reimer-Tiemann reaction (ii) Kolbe's reaction
(iii) Friedel -Crafts alkylolation (iv) Friedel -Crafts acylation
(v) Sandmeyer's reaction (vi) Wurtz reaction
(vii) Wurtz-Fitting reaction

Practical

- Q.2.** To identify the function group in the given organic compound.
- Q.3.** To prepare standard solution of mohr's salt ($\frac{M}{10}$ strength) and determine the concentration of given potassium permanganate solution in gram per litre.
- Q.4.** To prepare standard ($\frac{M}{10}$) solution of oxalic acid and to determine the strength of given potassium permanganate solution in gram per litre.
- Q.5.** Determination of one anion and one cation in a given salt.

AUTUMN BREAK HOME WORK 2026

PM SHRI KV No.1 Sagar

DATE: 15/10/2026 & 25/10/2026

DATE: 15/10/2026

UNIT-I ELECTROSTATICS

1. Explain briefly (i) charge quantization (ii) conservation of charge
2. State Gauss' theorem . Calculate electric flux due to surface enclosing charge of $1C$
3. Obtain the expression for the electric field intensity E due to infinite plane sheet of charge .
4. Derive an expression for the E at a point near an infinitely long, thin, uniformly charged straight wire.
5. Find expression for torque on electric dipole in uniform electric field. Give its equilibrium state.
6. Derive expression for capacitance of a parallel plate capacitor i) without dielectric ii) with dielectric slab.
7. What is equipotential surface? Find work done on moving charge on such surface.

UNIT-II CURRENT ELECTRICITY

DATE: 16/10/2026

1. Define the term resistivity or specific resistance. Give its S.I. unit. Show that resistance R of a conductor is given by $ml/(ne^2\tau A)$, where symbols have their usual meaning
2. Derive $i = neAV_d$ and Also prove $J = \sigma E$ (ohm's law).
3. State Kirchoff's laws for electrical network.
4. Distinguish between emf and terminal potential difference and also relate them with internal resistance r for (i) charging and (ii) discharging of a cell. State factors on which internal resistance depends.
5. What is Wheatstone bridge. Derive condition for balanced wheatstone bridge. How null point gets affected on interchanging position of galvanometer and battery in balanced wheatstone bridge.
6. Two wires X and Y of same material but area of cross section in ratio $2:3$ and lengths $1:2$.They are connected in series and parallel to dc source Find ratio of drift velocity of electrons in both case.

UNIT-III MAGNETIC EFFECTS OF CURRENT AND MAGNETISM

DATE: 17/10/2026 & 18/10/2026

1. State Biot- Savart law and its vector form. Derive expression for magnetic field at center and on axis of current carrying circular loop. Also draw the magnetic field lines due to a circular current carrying loop.
2. Using Ampere's circuital law, Derive the expression for magnetic field due to (i) infinitely long straight wire
3. Derive the expression for force between two parallel current-carrying conductors and hence give definition of ampere. Draw diagram representing direction of force for current in same direction.
4. Derive the expression for torque experienced by a current loop in a uniform magnetic field.
5. Give principle, construction, working and labeled diagram of a moving coil galvanometer. Find the expression for its current sensitivity and Voltage sensitivity.
6. How can a galvanometer of 100 Ohm be converted into Voltmeter($0-10V$) and ammeter ($0-2A$) if current for maximum deflection is $5mA$.
7. Distinguish between Paramagnetic, Diamagnetic and Ferromagnetic substances.

UNIT – 4. ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENTS

Date: 21/10/2026 & 22/10/2026

- 1.State Lenz's law . Show that it is in accordance to law of conservation of energy.
- 2.**Define self inductance. Derive expression for self inductance of a coil/solenoid.**
- 3.**Define mutual-inductance. Derive expression for mutual inductance two co-axial coil/solenoid of same length.**
- 4.Give Principle ,construction , working and theory of (i) Transformer (ii) AC Generator
- 5.What are various losses in transformer and how can they be minimised?
- 6.Distinguish between resistance, reactance and impedance? How they vary with frequency of a.c
- 7.**Using phasor diagram derive expression for impedance , phase angle for series LCR circuit.**
- 8.**What is condition for resonance. Derive expression for resonant frequency.**
- 9.Show that power consumed by ideal inductor or capacitor is zero. What is wattless current
- 10.A $25\mu\text{F}$ capacitor, 0.1H inductor and a 25 ohm resistor are connected in series with an a.c. source whose emf is given by $E = 310 \sin 314t$. Find (i) peak value , rms value, frequency of emf (ii)reactance of the circuit (iii) impedance (iv) current (v)resonant frequency for circuit.
- 11.Calculate current drawn by primary of a transformer ,which steps down 200V to 20V to operate a device of 10ohm . Given efficiency of transformer is 50%

UNIT –5. Electromagnetic Waves

DATE: 23/10/2026

1. **Mention properties of electromagnetic waves.**
2. **Describe properties ,uses ,application of E.m spectrum.**
3. A capacitor , made of two parallel plates each of plate area A and separation d , is being charged by an external ac source. Show that the displacement current inside the capacitor is the same as the current charging the capacitor

UNIT – 6.&7 Optics

DATE: 24/10/2026 & 25/10/2026

1. **What is total internal reflection and state two conditions required for it. Mention its applications.**
2. **Derive relation between μ u,v and R for a spherical surface and hence derive lens maker formula.**
3. Derive thin lens formula. Explain Magnification and Power of a lens.
4. Derive expression for focal length for combination of thin lenses in contact.
5. Derive prism formula. Also show graphically variation of angle of deviation with angle of incidence.
6. Draw **ray diagram of compound microscope** to show image formation in normal and far point position. Derive expression for magnifying power also.
7. Draw ray diagram for normal adjustment of a **astronomical telescope** in and derive expression for magnifying power also
8. State and Use Huygens' principle to show how a plane wavefront propagates from a rare to denser medium. Hence verify Snell's law of refraction.
9. State and Use Huygens' principle to verify law of reflection.

Complete your practical record and investigatory project

Happy holidays keep yourself fit and healthy

AUTUMN BREAK HOMEWORK

CLASSES 9–12

01

NOTEBOOK COMPLETION

Complete all pending notebook work.



02

INVESTIGATORY PROJECT

Complete your investigatory project.



03

PRACTICAL FILES

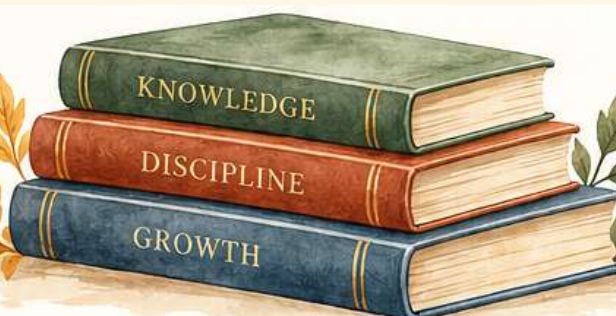
Complete practical files for all concerned subjects.



04

BOARD EXAM PRACTICE

Solve previous years' board examination question papers.



शरदकालीन अवकाश की शुभकामनाएँ!

आपका अवकाश आनंदमय एवं
रचनात्मक हो।

खेलें, पढ़ें और नई बातें सीखें।
परिवार के साथ खुशियाँ बाँटें।
अपना ध्यान रखें और मुस्कुराते रहें।

फिर मिलेंगे!

