

**KENDRIYA VIDYALAYA NO. 2 AFS
SURATGARH
HOLIDAY HOME WORK-2026-27
CLASS -IV TO X
CLASS -4**

AUTUMN BREAK HOLIDAY WORK

Hindi HHW for autumn break

1. प्रतिदिन एक पेज हिंदी सुलेख लिखें।
2. 10 मुहावरे और 10 लोकोक्तियायाद करे।
3. प्रतिदिन 5 नए शब्द लिखे और उनसे एक-एक वाक्य बनाये।

Maths HHW for autumn break

1. Do 5 Multiplication and 5 Division sum everyday.
2. Learn Multiplication tables up to 20.
3. Measure weight of 10 objects in your house

TWAU HHW for autumn break

- | |
|---|
| 1. Collect 5 different autumn leaves paste them in notebook and write their tree name. |
| 2. Write 5 lines on " Why do trees shed leaves in Autumn " ? |
| 3. Observe the sky in morning and evening for 3 days and draw the colour difference in your notebook. |
| 4. Write about any bird or animal you saw during holidays (habitat, food, colour, special features). |
| 5. Make a collage using pictures from magazines/ newspaper about " our environment " . |

ENGLISH HHW for autumn break

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|--|
| 1. Make a colourful drawing showing any two yoga postures with benefits on A4 sheet. |
| 2. Write a short paragraph on your favourite game with picture on A4 sheet. |
| 3. Enlist any 10 adjectives (describing words) Roll no :1-8). adverbs (roll no 9-16) and Nouns (roll no.19-24) from lesson 7 & 8 on A-4 sheet. Paste or draw pictures too . |
| 4. Make a model of any one musical instrument of your choice. |
| Paste or draw pictures of Local/Traditional games that you have played. |

CLASS – 5

AUTUMN BREAK HOLIDAY HOMEWORK

1. Twau HHW for Autumn break

1. Paste samples (small pieces) of 5 different types of clothes.
2. Make a timetable of 3 days mentioning activities you do.
3. Paste pictures of 10 electric appliances and 10 non-electric machines.

2. MATHS HHW FOR AUTUMN BREAK

1. Convert into grams: (a) 3 kg 500 g (b) 2 kg 250 g (c) 7 kg 67 g (d) 3 kg 300 g (e) 8 kg 69 g.
2. Convert into kilograms and grams: (a) 10,760 g (b) 4,080 g (c) 12,042 g (d) 6,500 g.
3. Use $<$, $>$ or $=$:
(a) 1 kg 600 g ____ 1,700 g (b) 1 kg 600 g ____ 1 kg 60 g
(c) 10 kg 35 g ____ 10,035 g (d) 1 kg 600 g ____ 2kg 500 g
(e) 5 kg 50 g ____ 4 kg 500 g.
4. Add:
(a) 2 kg 500 g + 1 kg 750 g (b) 5 kg 200 g + 8 kg 900 g (c) 17 kg 900 g + 12 kg 700 g.
5. Subtract:
(a) 10 kg - 4 kg 500 g (b) 9 kg 750 g - 3 kg 700 g (c) 14 kg 750 g - 10 kg 500 g.
6. Multiplication, Division and Cost
 1. 4 potato sacks weigh 10 kg 500 g each. Find their total weight.
 2. 4 kg 800 g of nuts is divided equally into 4 boxes. Find the weight in each box.
 3. Rice costs n60 per kg. Find the cost of 2 kg 500 g rice.
 4. Five kilograms of tomatoes cost 73. What will 10 kg cost?
 5. Four people need 500 g rice for a meal. How much rice is needed for 8 people?

PROJECT:

Make Icosahedron and Dodecahedron shapes.

3. ENGLISH HHW FOR AUTUMN BREAK

1. Write a paragraph of about 80 words on 'Importance of water conservation' and traditional water management system.
2. Design a unique water tank model
3. Write the contractions of the following and make one sentence with each.
(I) do not (ii) will not (iii) could not (iv) is not (v) have not
4. Write full form of the following and make one sentence with each (I) shouldn't (ii) you're (iii) can't (iv) they're (v) doesn't
5. Write 10 exclamatory sentences from your ncert textbooks.

1. रचनात्मक लेखन

निम्नलिखित विषयों पर 80-100 शब्दों में अनुच्छेद लिखिए।

1. मेरा प्रिय त्योहार
2. पेड़ों का महत्त्व
3. स्वच्छ भारत, स्वस्थ भारत

2. संज्ञा – पाँच प्रश्न

1. राम विद्यालय जाता है। वाक्य में संज्ञा शब्द छाँटिए।
2. जयपुर राजस्थान की राजधानी है। संज्ञा शब्द लिखिए।
3. निम्नलिखित शब्दों में से संज्ञा शब्द छाँटिए – सुंदर, पुस्तक, दिल्ली, मीठा, मोहन।
4. पाँच व्यक्तियों, पाँच स्थानों और पाँच वस्तुओं के नाम लिखिए।
5. रिक्त स्थान भरिए – गाय हमें _____ देती है। _____ भारत की राजधानी है।

3. सर्वनाम – पाँच प्रश्न

1. वह बाजार जा रहा है। सर्वनाम शब्द छाँटिए।
2. रीना मेरी सहेली है। रीना बहुत मेहनती है। सर्वनाम का प्रयोग करके वाक्य दोबारा लिखिए।

KENDRIYA VIDYALAYA NO. 2 AFS SURATGARH HOLIDAY HOME WORK-2026-27 CLASS -VI

Subject: Social Science

- Draw and label the seven continents and five oceans on a world map.
- Write five examples each of tangible and intangible cultural heritage.
- Prepare a chart on the importance of family and community.
- Explain the role of Gram Panchayat in rural development.
- Complete five competency-based questions from each chapter taught in class.
- Revise all chapters covered in the syllabus.

AUTUMN HOLIDAY HOMEWORK

Class VI – Science

.Section A: Short-Answer Questions

1. What is science? Write two examples of science in everyday life.
2. Why do we need standard units of measurement?
3. Write the names of any five materials used to make objects around you.
4. What is the difference between living and non-living things? Give two examples of each.
5. What is a balanced diet? Name any four nutrients.
6. What is a magnet? Write two uses of magnets.
7. What is motion? Give two examples of objects in motion.
8. Why should we avoid wasting water?

Section B: Think and Answer

1. A shopkeeper measures cloth using a handspan. Why might two customers get different measurements? Suggest a better method.
2. You find a plant growing near a window and bending towards sunlight. What does this tell you about plants?
3. An iron nail and a wooden pencil are placed in water. Predict what may happen and explain why.

Section C: Activity-Based Learning

1. Material Hunt: Choose five objects from your home. Record each object, the material it is made from, and one property (hard/soft, transparent/opaque, flexible/rigid, etc.).
2. Kitchen Science – Solubility: With adult supervision, stir a small amount of salt and sugar separately into two cups of water. Record what you observe. Do not taste the mixtures.
3. Motion Around Me: Observe three moving objects (for example, a fan, a bicycle, or a swinging swing). Write what is moving and describe its motion.
4. Healthy Plate: Draw a healthy meal plate and label foods that provide carbohydrates, proteins, fats, vitamins, minerals, and fibre.

Section D: Creative Project

Make a colourful poster on ONE topic:

- Save Water, Save Life
- Reduce, Reuse and Recycle
- Science in Everyday Life
- Keep Your Surroundings Clean

Include a clear title, at least three useful messages, and drawings or pictures.

Section E: Nature Observation

Observe one plant or tree near your home for three days. Complete the table.

Day

What did you observe?

Any change noticed?

Day 1

Day 2

Day 3

ART & CRAFT

Nature Drawing

Fruit Composition

Cleanliness पोस्टर

ENGLISH

🍁 Autumn Break 🍁 Holiday Homework (2026-27)

Class: VI **Subject:** English **Submission Date:**
27/10/2026

General Instructions for Students:

1. Complete all your homework neatly in your English Homework Notebook.
2. Ensure your handwriting is clean, clear, and legible.
3. Work independently to reinforce your reading, vocabulary, and grammar concepts during the break.

SECTION A: English Grammar

Topic: Modal Verbs (Helping Verbs & Their Functions)

Quick Reference Guide (Based on Modal Matching Chart):

- **May:** Used for asking or giving *permission* or expressing *possibility*.
- **Should:** Used to give *advice* or recommendations.
- **Can:** Expresses *ability* (capacity to do something).
- **Must:** Expresses strong obligation or *compulsion*.
- **Need to:** Expresses requirement or *necessity*.
- **Used to:** Refers to a *past habit* or routine.

Task 1: Matching Modals with Functions

7. You _____ submit your assignment before the due date.
8. _____ you please pass me the salt?

SECTION B: Literature & Vocabulary

Topics: "Spices That Heal Us" & "A Change of Heart"

Task 3: Reading & Book Exercises

1. **Read both chapters thoroughly:**
 - Chapter: *Spices That Heal Us*
 - Chapter: *A Change of Heart*
2. **Textbook Questions:** Solve all comprehension questions and book exercises given at the end of both chapters in your notebook.

Task 4: Pronunciation & Self-Spelling Challenge

Instructions for Students: Click or scan the online pronunciation links provided below to listen carefully to how each word is pronounced. Do not look at the text while listening; listen 2-3 times and try to write down the correct spelling and meaning on your own.

1. **🔊 Word 1 (Spice - Yellow Root):** [Listen to Audio Pronunciation](#)
 - Write its spelling and medicinal use:

Directions: Match the modal verbs in **Column A** with their correct primary function in **Column B**:

Column A (Modal Verbs)	Column B (Functions)
1. May	a. Past habit
2. Should	b. Suggestion / Advice
3. Can	c. Compulsion / Strong Obligation
4. Must	d. Ability
5. Need to	e. Necessity
6. Used to	f. Permission / Possibility

Task 2: Fill in the Blanks with Appropriate Modals

Directions: Complete the sentences using suitable modals from the box: (*can / should / must / used to / need to / may*)

1. You _____ wear a helmet while riding a bicycle for safety.
2. She _____ speak three languages fluently.
3. _____ I come in, Teacher?
4. We _____ pay attention to our health and diet.
5. My grandfather _____ go for long morning walks when he was young.
6. I _____ buy a new notebook because my old one is full.

2. 🗣️ Word 2 (Spice - Fragrant Seeds/Pods):

[Listen to Audio Pronunciation](#)

- Write its spelling and medicinal use:

3. 🗣️ Word 3 (Spice - Tree Bark): [Listen to Audio Pronunciation](#)

- Write its spelling and medicinal use:

4. 🗣️ Word 4 (Value/Emotion - Kindness towards others): [Listen to Audio Pronunciation](#)

- Write its spelling and meaning:

SECTION C: Spelling Testing Exercises

Task 5: Choose the Correct Spelling

Directions: Look at the four options given in each question below. Three spellings are incorrect, and only **one** spelling is correct. Circle or write the correct spelling option in your notebook.

1. Find the correctly spelled word related to spices:

- A) turmric
- B) turmeric
- C) tormeric
- D) turmaric

2. Find the correctly spelled word for a sweet-smelling spice:

- A) cannamon
- B) cinamon
- C) cinnamon
- D) cinnamun

3. Find the correctly spelled word for feeling kindness:

- A) compasion
- B) cumpassion
- C) compation
- D) compassion

4. Find the correctly spelled word for a medical substance or remedy:

- A) medicin
- B) medicine
- C) medecine
- D) medison

5. Find the correctly spelled word meaning an alteration or shift:

- A) chang
- B) channge
- C) change
- D) chenge

SECTION D: Experiential & Creative Activity

Task 6: Kitchen Herbalist Poster

- **Activity:** Choose any **two spices** from your kitchen (e.g., Turmeric, Cloves, Ginger, Cumin).
- Stick a small real sample or picture of each spice on an A4 sheet.
- Write **3 health benefits/healing properties** for each spice in simple English sentences.

Hindi

कक्षा 6 वीं

*शरद ऋतु अवकाश गृहकार्य 2025 -2026

1. 10 पृष्ठ सुलेख लिखें।
2. 2 कविता लिखना व याद करना।
3. दशहरे पर अनुच्छेद लिखें।
4. 10 पर्यायवाची शब्द, 10 विलोम शब्द, 10 मुहावरे लिखें।
5. 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें।
6. अर्धवार्षिक परीक्षा प्रश्न पत्र का सही हल एक बार लिखें।

केंद्रीय विद्यालय क्रमांक 2 वायुसेना
स्थल,सूरतगढ़ (जयपुर संभाग)

(शरदकालीन अवकाश गृहकार्य)

कक्षा- 6th 2026-27 विषय- संस्कृत

1. अस् धातु के लट् और लृट् लकार में रूप लिखें एवं याद भी कीजिये।
2. तद् शब्द का रूप तीनों लिङ्गों में रूप लिखें और याद करें।
3. 10 शब्द पुल्लिङ्ग 10 शब्द स्त्रीलिङ्ग और 10 शब्द नपुंसकलिङ्ग में चित्र सहित लिखो।
4. बालक और बालिका शब्द के रूप लिखो एवं याद करो।
5. संस्कृत प्रतिज्ञा लिखो और याद करो।
6. पांच फलों, पांच पशुओं, और पांच रंगों के नाम चित्र सहित चार्ट पर लिखिए।
7. पाँच श्लोक लिखें एवं याद करें।

COMPUTATIONAL THINKING AND ARTIFICIAL INTELLIGENCE

Part 1: Draw and Learn

Draw *any 2 AI devices* you know

Example ideas:

- o Mobile phone face unlock
 - o Smart speaker (like Alexa)
- Write 1 line about each drawing

Part 2: Creative Writing

Write 50–80 words on:

 *“My Robot Helper”*

Part -3 Computational thinking chapter-5 (number Play) find the solution in notebook.

MATHS

KENDRIYA VIDHYALAYA NO.2 AFS SURATGARH

AUTUMN BREAK HOMEWORK

CLASS-VI

1. The hands of a clock show 3 o'clock. What angle do they make?
2. How many degrees are there in (a) half a turn, (b) a quarter turn, (c) three-quarters of a turn?
3. Classify each as acute, obtuse, right or straight: 179 degrees, 1 degree, 89 degrees, 91 degrees.
4. Write all prime numbers between 1 and 30.
5. Find the smallest and the greatest 2-digit prime numbers.
6. State the divisibility rule for 3 and test whether 4,521 is divisible by 3.
7. Check whether 1,234 is divisible by 4 and by 8.
8. Find the HCF of 24 and 36.
9. Find the LCM of 6 and 8.
10. Express 84 as a product of prime numbers.
11. The marks of 10 students are: 45, 60, 55, 70, 45, 80, 60, 45, 90, 45. Make a frequency table using tally marks.
12. In a pictograph, 1 symbol = 5 student. If 4 symbols are shown for cricket, how many students like cricket?
13. Find the prime factorisation of 72.
14. Find the LCM of 15 and 25 using prime factorisation.
15. Find the smallest number that is divisible by both 12 and 18.
16. Find the prime factorisation of 90.
17. Find the HCF and the LCM of 36 and 48.
18. Test 5,214 for divisibility by 6.
19. Find the greatest 2-digit number divisible by 8.
20. Write three pairs of twin primes.

 Autumn Break **Holiday**
Homework (2026-27)
Class: VII

General Instructions for Students:

1. Do all your homework neatly in your English Homework Notebook
2. Ensure your handwriting is clean and legible.
3. Complete the work independently to revise and strengthen your grammar and reading skills during the break.

SECTION A: English Grammar (Subject-Verb Agreement)

Topic: Subject-Verb Agreement (20 Exercises based on reference rules)

Quick Reference Guide:

- Rule 1: Singular subjects joined by AND require a plural verb, except when they mean one thing.
- Rule 2: If two subjects are joined by EITHER/OR or NEITHER/NOR, the verb agrees with the subject nearest to it.
- Rule 3: Sentences beginning with here/there have the verb agreeing with the subject that follows.
- Rule 4: If subjects are connected with along with / as well as / accompanied by, the verb agrees with the first subject.
- Rule 5: Words like each, every, everyone, one of, much, a little take a singular verb.

Directions: Choose the correct verb from the given options to complete each sentence:

1. Rosy and Shiny _____ (is / are) looking happy.
2. Bread and butter _____ (is / are) my favorite breakfast.
3. Slow and steady _____ (wins / win) the race.
4. Neither he nor his brother _____ (has / have) copied the speech.
5. Neither Ron nor Sam _____ (is / are) coming to the party tonight.
6. Neither Alex nor his brothers _____ (is / are) going to the party.
7. There _____ (is / are) a pond near the house.
8. There _____ (is / are) some candies on the table.
9. Here _____ (is / are) the document for your car.
10. Tom, along with his brothers, _____ (is / are) going to the city.
11. The boys, accompanied by their teacher, _____ (is / are) planning a tour.
12. Alex, as well as his parents, _____ (is / are) coming to the party.
13. Much of the topic _____ (has / have) already been discussed.
14. Every student of my class _____ (is / are) ready to participate.
15. A little water _____ (is / are) left in the jug.
16. One of the boys _____ (is / are) not present today.
17. A number of dancers _____ (is / are) coming to the party.
18. The number of dancers coming to the party _____ (is / are) 12.
19. Twenty miles _____ (is / are) not a long distance.
20. This pair of shoes _____ (is / are) so expensive.

SECTION B: Literature (Unit 4, Chapter 1 "The Tunnel")

Reading & Comprehension:

1. Thoroughly read Chapter 1 ("The Tunnel") from your literature textbook.
2. Vocabulary: Find and write the meanings of 5 new or difficult words from the chapter in your notebook.

Textbook Questions:

1. Solve all the Textbook Questions and Answers given at the end of the chapter in your English notebook.

SECTION C: Experiential Learning Activity

- Activity: Create a small model of a tunnel or a scenic railway track using cardboard or waste materials, inspired by the chapter, and write a short paragraph of 4-5 sentences in English describing your experience or thoughts about it.

SST

1. Mark the Himalayas, Thar Desert, Deccan Plateau, River Ganga and Arabian Sea on an outline map of India.
2. Prepare a comparative chart of monarchy, democracy and dictatorship.
3. Explain the major factors affecting the weather and climate of India.
4. Write a short note on the rise of empires in medieval India.
5. Prepare a poster on "Unity in Diversity".

Science

Answer the following questions in 2–4 sentences each.

1. What is science? How does asking questions help us learn about the world?
2. Why should measurements be made using standard units?
3. Differentiate between acidic, basic and neutral substances. Give one everyday example of each.
4. What is an indicator? Name one natural indicator and explain how it is used.
5. Differentiate between uniform motion and non-uniform motion with one example of each.
6. Why is it important to use a suitable thermometer and read it correctly?
7. Write two differences between physical changes and chemical changes.
8. Explain evaporation and condensation with one example of each from daily life.
9. Name two ways in which heat can be transferred. Give one example for each.
10. Write three healthy habits that help maintain the health of the digestive system.

Section B – Competency-Based Questions

A student notices that a wet school uniform dries faster on a sunny, windy day than on a cool, still day.

- a) Name the process responsible for drying.
- b) State two conditions that make this process faster.
- c) Suggest one way to dry clothes while saving energy.

Riya tests lemon juice, soap solution and plain water using red and blue litmus paper.

- a) Classify the three liquids as acidic, basic or neutral.
- b) What colour change would you expect with lemon juice and blue litmus?
- c) Why should unknown liquids never be tasted in an experiment?

A toy car travels equal distances in equal time intervals on a smooth floor, but slows down on a rough mat.

- a) Which part of the journey shows uniform motion?
- b) Is the motion on the rough mat uniform or non-uniform? Explain.
- c) Name one factor that may cause the car to slow down.

Section C – Observation and Activity Work

Activity 1: Science Around Me

Observe your home or neighbourhood and record five examples of science in everyday life.

Observation	Science concept involved	How it helps us

Activity 2: Motion Detective

Observe a moving object (such as a toy car, bicycle or ceiling fan from a safe distance). Write the object, what you observed, whether its motion appears uniform or non-uniform, and your reason. Do not observe traffic from the road.

Activity 3: Heat in Daily Life

Draw or paste pictures showing conduction, convection and radiation. Label each picture and write one sentence explaining the process.

Section D – Creative Project

Choose ONE project:

1. "Acidic, Basic or Neutral?" Make a colourful chart showing five common household substances, their likely nature (acidic/basic/neutral), and one safety precaution. Do not mix substances or test them without adult supervision.
2. "Water: Changing States" Prepare a labelled diagram or 3D model showing melting, freezing, evaporation and condensation.
3. "Science in My Kitchen" Create a mini scrapbook of five safe, everyday examples of physical or chemical changes. Add a caption for each example.

Your project should include: title, aim or purpose, materials (if applicable), observations/information, conclusion, and sources used.

MATHS

KENDRIYA VIDHYALAYA NO.2 AFS SURATGARH AUTUMN BREAK HOMEWORK CLASS-VII

- 1) What number do you get if you add 1 to the largest 5-digit number.
- 2) According to the 2011 Census, the population of the town of Chintamani was about 75,000. How much less than one lakh is 75,000?
- 3) The estimated population of Chintamani in the year 2024 was about 106,000. How much more than one lakh is 106,000?
- 4) i) According to the 2011 Census, the population of the town of Chintamani was about 75,000. How much less than one lakh is 75,000?
(ii) The estimated population of Chintamani in the year 2024 was about 106,000. How much more than one lakh is 106,000?
(iii) By how much did the population of Chintamani increase from 2011 to 2024?
- 5) Write the nearest thousand of the number 6,72,85,183.
- 6) How many tens are required to make ten thousand?
- 7) Simplify the given expressions and find the numbers.
(a) $(50 \times 100) + (7 \times 10) + (2 \times 1) = ?$
(b) $(3 \times 1000) + (20 \times 100) + (72 \times 1) = ?$
- 8) Place commas and write the number name according to Indian and American system.
9876501234 , 4050678 , 48121620 , 20022002 , 246813579 ,
- 9) Compare and write '<', '>', '='.
(a) 30 thousand 3 lakhs. (b) 500 lakhs 5 million.
(c) 800 thousand 8 million. (d) 640 crore 60 billion.
- 10) Write the expression "5 more than 2 times a number X"
- 11) Which is greater? $1023 + 125$ or $1022 + 128$?
- 12) Find the sums
(a) $5.3 + 2.6$ (b) $2.15 + 5.26$ (c) $9.01 + 9.10$

13) Write a story/situation for each of the following expressions and find their values.

(a) $89 + 21 - 10$ (b) $5 \times 12 - 6$

14) A metro train ticket between two stations is ₹ 40 for an adult and ₹ 20 for a child. What is the total cost of tickets:

(i) for four adults and three children? (ii) for two groups having three adults each?

15) Write these quantities in decimal form: (a) 234 hundredths, (b) 105 tenths, (c) 234 tenths.

16) Fill in the blanks: (a) 70 mm = ...cm (b) mm = 0.9 cm (c) 134 mm = ...cm

Fill in the blanks: (a) 36 cm = ...m (e) 4 cm = ...m (b) 325 cm = ... m (f) cm = 2.07 m

17) Fill in the blanks

(a) 10 p = ₹ (b) p = ₹ 0.50 (c) p = ₹ 0.05

(d) 99 p = ₹ (e) p = ₹ 0.36 (f) 250 p = ₹

18) Identify the change and write the next 3 terms for each sequence given below.

(a) 4.4, 4.45, 4.5, ... (b) 25.75, 26.25, 26.75, ...

(c) 10.56, 10.67, 10.78, ... (d) 13.5, 16, 18.5, ...

(शरदकालीन अवकाश गृहकार्य)
कक्षा- 7th 2026-27 विषय- संस्कृत

1. 'किम्' (क्या)शब्द के पुल्लिंग, स्त्रीलिंग, और नपुंसकलिंग में शब्दरूप लिखिये।
2. अस् धातु के सभी लकारों में रूप लिखो और याद करो।
3. कोई दो सुभाषित श्लोक अर्थसहित लिखो।
4. बालक और बालिका शब्द के रूप लिखो और याद करो।
5. संस्कृत प्रतिज्ञा लिखो और याद करो।
6. पाँच श्लोक लिखें एवं याद करें।

HINDI

कक्षा 7वीं

*शरद ऋतु अवकाश गृहकार्य 2025-26

1. 10 पृष्ठ सुलेख लिखना।
2. अर्धवार्षिक परीक्षा प्रश्न पत्र का सही हल एक बार लिखें।
3. 10 पर्यायवाची शब्द, 10 विलोम शब्द, 10 मुहावरे लिखें।
4. दीपावली त्योहार पर अनुच्छेद लिखें।
5. फास्टफूड के 5 फायदे और 5 नुकसान लिखें।
6. एक प्रार्थना पत्र लिखें।
7. 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें।

ART & CRAFT

Watercolour Landscape

Colour Wheel

Warli Art

SUBJECT – COMPUTATIONAL THINKING & AI

Part 1: Fun Activity – AI Around You

Look around your home or school.
Find **3 things that use AI**.
Draw or paste pictures of them.
Write 1–2 lines about each.

Example:

Smart phone face unlock
YouTube suggestions
Google Assistant

Part 2: Simple Practical

Choose any one:

Option A:

Create a small animation using **Scratch**
Draw your project or paste a screenshot
Write 3 lines explaining it

Part -3 Computational thinking chapter-5 (A Peek Beyond the Point) find the solution in notebook.

 Autumn Break **Holiday**
Homework (2026-27)
Class: VIII

SUBJECT-SST

- 1. Prepare a flowchart showing the factors of production: land, labour, physical capital and human capital.
- 2. Write a note on the rise of the Marathas and their contribution to Indian history.
- 3. Explain universal adult franchise and the importance of free and fair elections.
- 4. Draw a flowchart showing the relationship between the Legislature and the Executive.
- 5. Prepare a chart on natural resources and their conservation.

🍁 Autumn Break 🍁 Holiday Homework (2026-27)

Class: VIII Subject: English Submission Date:
27/10/2026

General Instructions for Students:

1. Do all your homework neatly in your English Homework Notebook / A4 size sheets.
2. Ensure your handwriting is clean and legible.
3. Complete the work independently to revise and strengthen your concepts during the break.

SECTION A: English Grammar (Competency-Based)

Topic: Gerunds and Participles

Task 1: Identify and Differentiate

Note for Reference:

- A **Gerund** acts as a *Noun* (verb + **-ing**). Example: *Reading* is fun.
- A **Participle** acts as an *Adjective* or part of a continuous verb tense (verb + **-ing / -ed / -en**). Example: The *smiling* baby looked cute.

Directions: Read the sentences below. Identify the underlined word/phrase as either a **Gerund** or a **Participle**.

1. **Walking** in the morning is good for health.
2. The **barking** dog did not bite anyone.
3. She is fond of **singing** classical songs.
4. I saw a boy **running** across the street.
5. **Swimming** is my favorite hobby.
6. The teacher was impressed by his **written** work.
7. He ruined his phone by **dropping** it in water.
8. The **frightened** child hid behind his mother.
9. **Finding** the solution took him a long time.
10. Look at that **shining** star in the sky!

SECTION B: Creative Writing (Descriptive Essays)

Task 2: Beginner-Level Descriptive Essays

Instructions: Write a descriptive paragraph/essay on any 5 of the following topics.

- **Word Limit:** 100-150 words each.
- Use simple language, vivid adjectives, and proper paragraph structure.
- 1. **My Favorite Festive Season** (*Describe the colors, food, emotions, and family traditions*)
- 2. **A Visit to a Local Park** (*Describe what you see, hear, smell, and feel there*)
- 3. **My Best Friend** (*Describe their appearance, qualities, and why they are special to you*)
- 4. **My Dream Pet** (*Describe the animal, how you would care for it, and what activities you'd do together*)
- 5. **A Rainy Day in My City** (*Describe the weather, atmosphere, sounds, and how people react*)

SECTION C: Literature & Experiential Learning

Topic: Unit-4, Chapter 1 “The Cherry Tree” by Ruskin Bond

Task 3: Reading & Comprehension

1. **Read Chapter 1 (*The Cherry Tree*)** thoroughly from your textbook.
2. **Glossary:** Find and write the meanings of **5 new/difficult words** from the chapter in your notebook.

Task 4: Book Exercise Solutions

- Solve all the **Textbook Questions & Answers** (Under *Understanding the Text / Comprehension*) given at the end of Chapter 1 in your notebook.

Task 5: Experiential Learning Activity (Creative Project)

- **Activity:** Plant a seed or a small sapling (flower, herb, or vegetable) in a small pot or in your garden during the break.
- **Observation Log:** Write a short 4-5 sentence note on how you planted it and what care (water/sunlight) it needs, drawing inspiration from Rakesh's love for the cherry tree in the story.

Teacher's Note: *This assignment balances grammar revision, creative writing practice, literature reading, and an interactive experiential learning activity to keep students engaged productively.*

SUBJECT: Science

.PART A: Experiential & Observational Learning (Hands-On)

Task: Micro-Exploration in the Kitchen (Based on Chapter 2: The Invisible Living World)

Objective: To observe microbial action or particulate behavior in everyday household items.

Activity Steps & Report Guidelines:

Take a small amount of dough (wheat flour mixed with water and a pinch of yeast or curd) and keep it in a warm place for 4–5 hours.

Observe any changes in its volume, texture, and smell.

Prepare a brief report answering the following questions:

- What changes did you observe in the dough after a few hours?
- Which microorganisms are responsible for this change?
- Name two food items prepared commercially using this specific biological process.

PART B: Concept Application & Question Bank

Chapter 3: Health: The Ultimate Treasure

1. Define Health: According to the World Health Organization (WHO), how is health defined? Is it merely the absence of disease? Explain.
2. Differentiate: Distinguish between communicable and non-communicable diseases with two examples for each.
3. Case Study / Preventive Measure: Why is the control of mosquito breeding considered essential for preventing diseases like malaria and dengue? List three effective ways to prevent mosquito breeding around your house.

Chapter 4: Electricity: Magnetic and Heating Effects

1. Circuit Diagram: Draw a simple electric circuit comprising a cell, a switch, a bulb, and connecting wires. Show the direction of current.
2. Application Question: Give reasons why electric fuses are considered an essential safety device in domestic household circuits.
3. Concept Check: Name the principle behind the working of an electric bell. Which effect of electric current does it utilize?

Chapter 5 & 6: Forces and Pressure

1. Numerical / Conceptual: A force of 150 N is applied on an object of surface area 3 m^2 . Calculate the pressure exerted on the surface. (Formula: Pressure = Force / Area)
2. Observation Task: Why do deep-sea divers wear specially designed suits? Explain with respect to liquid pressure.
3. Wind & Storms: Explain why high-speed winds result in reduced air pressure, using an example from your daily life (e.g., roofs blowing off during a storm).

PART C: Creative Project & Model Making (Choose Any One)

Option 1 (Model Making): Create a working or non-working model of a simple electric circuit showing magnetic effects (like a mini-electromagnet using an iron nail, copper wire, and a dry cell) or a model showing phases of the Moon (Chapter 11).

Option 2 (Infographic Poster): Design an A3-size informative poster on "Defensive Shield Against Pathogens: Hygiene, Immunity, and Vaccination". Include colorful illustrations and slogans promoting healthy habits.

Option 3 (Research File): Write a 2-page report on "Artificial Satellites and Their Uses in Modern Life" (referencing Chapter 11: Keeping Time with the Skies). Include images of weather or communication satellites.

(शरदकालीन अवकाश गृहकार्य)
कक्षा- 8th 2026-27 विषय- संस्कृत

1. भू धातु के लट्, लृट्, लङ्, लोट् और विधिलिङ् लकारों में रूप लिखिए और याद करो।
2. दधि और वारि शब्द के रूप लिखें और याद करें।
3. “मञ्जुलमञ्जुषा सुन्दरसुरभाषा” पाठ के गीत को याद करें।
4. संस्कृत प्रतिज्ञा लिखो और याद करो।
5. पाँच श्लोक लिखें एवं याद करें।
6. नदी, लता, राम एवं फल शब्द रूप लिखें एवं याद करें।

SUBJECT_HINDI

कक्षा 8वीं

*शरद ऋतु अवकाश गृहकार्य 2025-26

1. 10 पृष्ठ सुलेख लिखना।
2. अर्धवार्षिक परीक्षा प्रश्न पत्र का सही हल एक बार लिखें।
3. 10 पर्यायवाची शब्द, 10 विलोम शब्द, 10 मुहावरे लिखें।
4. भैया दोज या गोवर्धन पूजा पर अनुच्छेद लिखें।
5. मोबाइल प्रयोग के 5 फायदे और 5 नुकसान लिखें।
6. अपने प्रिय नेता और किसी अपनी मनपसंद पर्यटन-स्थल पर दो निबन्ध लिखें।
7. 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें।
8. राष्ट्र-गान, राष्ट्रीय गीत और विद्यालय प्रार्थना याद करें और लिखें।

SUBJECT: MATHS

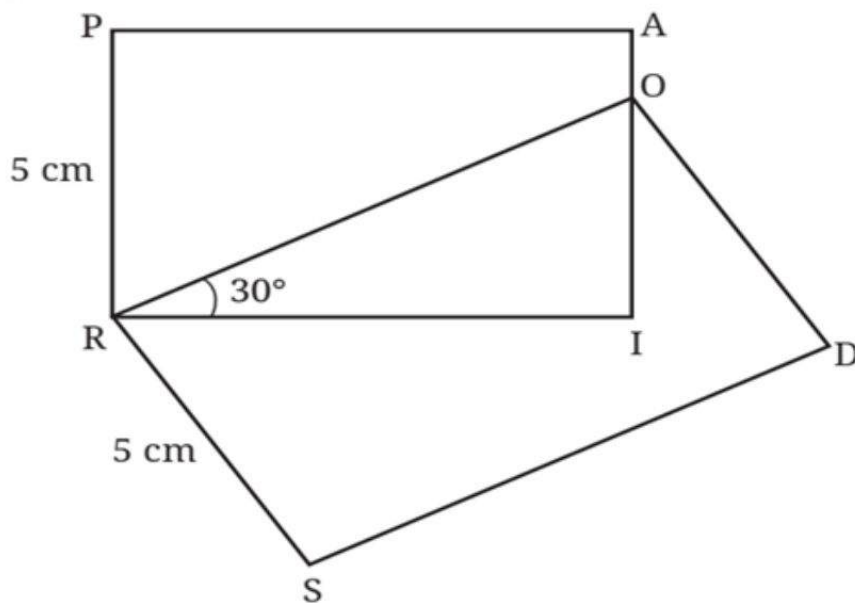
1. Four workers complete a job in 18 days. How many days will 12 equally efficient workers take?
2. If y is directly proportional to x , and $y=24$ when $x=8$, find y when $x=15$.
3. A rectangular hall has length $(3x+4)$ metres and breadth $(x+2)$ metres.
 - (a) Write an expression for its perimeter.
 - (b) Simplify the expression. (c) Find the perimeter when $x=5$.
4. The cost of 8 kg of rice is ₹440.
 - (a) Find the cost of 15 kg of rice.
 - (b) How many kilograms of rice can be bought for ₹1,100?
 - (c) Explain why the quantities are directly proportional.
5. Find the smallest number that must be added to 568 to make it divisible by 9.
6. Is 4,356 divisible by both 4 and 11? Justify your answer.
7. Find the HCF of 36 and 48 using prime factorisation.
8. Expand: $3(2x-5)+4x$
9. Find the value of $4(2x+3)$ when $x=2$.
10. Using the divisibility rules, determine whether 7,425 is divisible by 3, 5, 9 and 11. Give reasons for each answer.
11. Simplify the following expression using the distributive property:
 $4(2x+3)+3(x-2)-5x$
12. A group of 8 students can complete a classroom decoration project in 6 hours. Assume that every student works at the same rate and that the total amount of work remains unchanged. Answer the following questions:
 - (a). Calculate the total work in student-hours.
 - (b). How long will 12 students take to complete the same project?

(c). How many students are needed to finish the project in 4 hours?

13. Draw a quadrilateral whose diagonals have equal lengths of 8 cm that bisect each other, and intersect at an angle of (i) 30° (ii) 40°

14. Using the diagonal properties, construct a rhombus whose diagonals are of lengths 4 cm and 5 cm.

15. If PAIR and RODS are two rectangles, find $\angle IOD$



16. The sum of four consecutive numbers is 34. What are these numbers?

17. Find a number that leaves a remainder of 2 when divided by 3, a remainder of 3 when divided by 4, and a remainder of 4 when divided by 5. What is the smallest such number? Can you give a simple explanation of why it is the smallest?

18. How many multiples of 9 are there between the numbers 4300 and 4400?

19. A number leaves a remainder of 3 when divided by 7, and another number leaves a remainder of 5 when divided by 7. What is the remainder when their sum, difference, and product are divided by 7?

20. Prashanti and Bhuvan started a food cart business near their school. Prashanti invested ₹75,000 and Bhuvan invested ₹25,000. At the end of the first month, they gained a profit of ₹4,000. They decided that they would share the profit in the same ratio as that of their investment. What is each person's share of the profit?

SUBJECT –COMPUTATIONAL THINKING & AI

Part 1: Activity – AI Around Me

Observe your surroundings for a day.
Write down *5 examples where AI is used*.
Paste/draw pictures (optional).
Example:

- o Google Maps (navigation)
- o Alexa/Voice Assistant
- o Netflix recommendations

Part 2: Critical Thinking

Answer in 5–6 lines each:

1. Can AI replace humans? Why or why not?
2. What are the advantages and disadvantages of AI?
3. How can AI help students in studies?

Part -3 Computational thinking chapter-7 (Number Play) find the solution in notebook.

ART & CRAFT

Class VIII

Landscape Painting

Still Life Drawing

Environmental postar

 Autumn Break **Holiday**
Homework (2026-27)
Class: IX

SUBJECT-SST

CLASS IX

- 1. Prepare a timeline of important developments in early human civilization.
- 2. Explain the main features of democracy with suitable examples.
- 3. Prepare a flowchart showing the steps involved in making a rational economic choice.
- 4. Write a case study on a democratic institution in India.
- 5. Differentiate between needs, wants and resources with five examples each.
- 6. Practise map work related to the history and geography topics prescribed in your syllabus.

SCIENCE

AUTUMN HOLIDAY HOMEWORK

SECTION A: BIOLOGY (Chapters 2 & 3: Cell & Tissues)

Q1. Concept Mapping & Microscopy (Chapter 2: Cell - The Building Block of Life)

a) Draw a well-labelled diagram of a typical Plant Cell and an Animal Cell on an unlined sheet. List any three structural differences between them

(e.g., cell wall, vacuoles, plastids).

b) Why is the plasma membrane called a selectively permeable membrane?

Explain the process of osmosis with a real-life example.

Q2. Tissue Analysis & Application (Chapter 3: Tissues in Action)

a) Differentiate between Meristematic and Permanent tissues in plants.

Give the specific location and function of Apical Meristem.

b) Complete the following table regarding Animal Tissues:

- Epithelial Tissue (Function & Location)
- Muscular Tissue (Types: Striated, Non-striated, Cardiac - functions and occurrence)
- Nervous Tissue (Basic unit structure and main function)

SECTION B: PHYSICS (Chapters 4, 6 & 7: Motion, Forces & Work-Energy)

Q3. Numerical & Graphical Problem Solving (Chapter 4: Describing Motion Around Us)

a) Define acceleration. Derive the first equation of motion ($v = u + at$) using graphical or algebraic method.

b) A train starting from a railway station and moving with uniform acceleration attains a speed of 40 km/h in 10 minutes. Find its acceleration.

Q4. Conceptual Physics (Chapter 6: How Forces Affect Motion & Chapter 7: Work, Energy and Simple Machines)

a) Explain why a dust carpet is beaten with a stick to clear dust. Which law of motion is illustrated here?

b) Define Work. State the conditions under which work done is zero.

c) A body of mass 10 kg is dropped from a height of 5 m. Find its potential energy at the highest point and its kinetic energy just before hitting the ground ($g = 10 \text{ m/s}^2$).

SECTION C: CHEMISTRY (Chapters 5, 8 & 9: Mixtures, Atoms & Molecules)

Q5. Separation Techniques (Chapter 5: Exploring Mixtures and Their Separation)

a) How would you separate a mixture containing salt, camphor, and iron filings? Write a step-by-step procedure with scientific reasoning for each step.

b) Differentiate between true solutions, suspensions, and colloids with respect to Tyndall effect and particle size.

Q6. Atomic Structure & Formulas (Chapter 8: Journey Inside the Atom & Chapter 9: Atomic Foundations of Matter)

a) State the postulates of Dalton's Atomic Theory and how it explains the Law of Conservation of Mass.

b) Write the chemical formulas of the following compounds:

- Magnesium chloride
- Aluminium oxide
- Calcium carbonate
- Sodium nitrate

Class: IX Subject: English

Submission Date: 27/10/2026

General Instructions for Students:

1. Complete all your homework neatly in your English Homework Notebook or on A4 size sheets.
2. Ensure your handwriting is clean, clear, and legible.
3. Work independently to reinforce your reading, critical thinking, and writing skills during the break.

SECTION A: Literature & Prose (Unit 5 Focus)

Topic: "The World of Limitless Possibilities" (Paralympics Focus)

Task 1: Reading & Comprehension

1. **Read Thoroughly:** Read the chapter *The World of Limitless Possibilities* (focusing on the interview with Dr. Deepa Malik) from your textbook.
2. **Glossary & Vocabulary:** Note down **5 new words** (such as *resilience*, *indelible*, *fortitude*, *trailblazer*, and *inclusivity*) along with their meanings and make sentences of your own.

Task 2: Textbook Questions

1. Solve the **Check Your Understanding** and **Critical Reflection** questions given at the end of the chapter in your notebook.

SECTION B: Poetry Appreciation

Topic: "Nine Gold Medals" by David Roth

Task 3: Critical Analysis & Short Questions

1. **Theme Exploration:** Write a short paragraph (50-60 words) on the central theme of *Nine Gold Medals* empathy, sportsmanship, and human cooperation over individual victory.
2. **Reference to Context (RTC):** Answer the following questions based on the poem:
 - *æThe athletes had come from all over the country / To run for the gold, for the silver, and bronze...*
 - (a) What was the main objective of the athletes who gathered from all over the country?
 - (b) How does the atmosphere in the opening stanzas build excitement?
 - *The eight other runners pulled up on their heels... / One by one they all turned round and went back to help him...*
 - (a) Why did the eight runners stop running?

- (b) What value do these lines highlight about human nature?

SECTION C: Creative Writing (Posters & Diary Entry)

Task 4: Poster Design

Instructions: Design eye-catching, creative, and persuasive posters on A4 sheets using catchy slogans, bullet points, and illustrations within a box.

1. **Poster 1: Save Electricity** (*Highlight tips to conserve power at home and school; include a catchy slogan*).
2. **Poster 2: Save Environment** (*Focus on reducing plastic, planting trees, and protecting natural resources*).

Task 5: Diary Entry

- **Topic:** Write a diary entry expressing your feelings, hard work, and emotions after achieving **first place in an inter-school debate or sports competition**.
- **Word Limit:** 120–150 words.
- **Format:** Day, Date, Time, and Creative Diary Body.

SECTION D: Formal Writing (Letter Writing)

Topic: Letter of Complaint on Civic Issues

Task 6: Complaint Letter Practice

Prompt: Write a letter to the Municipal Commissioner complaining about the poor condition of roads, stray cattle menace, or irregular garbage collection in your locality, causing immense inconvenience to residents.

- **Word Limit:** 120-150 words.
- **Format:** Sender's s Address, Date, Receiver's Designation & Address, Subject, Salutation, Body (in 3 paragraphs), Subscription, and Signature.

SUBJECT_HINDI

कक्षा 9वीं

शरद ऋतु अवकाश गृहकार्य* 2025-26

1. 10 पृष्ठ सुलेख लिखना।
2. कोई दो लघुकथा लिखें।
3. समास के भेदों को लिखते हुए प्रत्येक के चार-चार उदाहरण लिखें।
4. अलंकार की परिभाषा , भेद और उदाहरण लिखें
5. परीक्षा परिणाम आने के बाद दो मित्रों के मध्य संवाद लिखें। 6. निबन्ध लिखो:
1 दहेज प्रथा
2 आपका प्रिय अध्यापक।
- 7 पाठ्य पुस्तक मंगाने हेतु पिता जी को पत्र लिखिए।
- 8 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें।
- 9 अर्धवार्षिक परीक्षा प्रश्न पत्र का सही हल एक बार लिखें।

MATHS

1. Evaluate 992 using an identity.
2. Expand $(x + 2)(x - 2)$.
3. Evaluate 103×97 using an identity.
4. Expand $(a + b)^3$.
5. Factorise: $x^2 + 6x + 9$.
6. Find the length of a chord of a circle of radius 5 cm that is at a distance of 3 cm from the centre.
7. In a cyclic quadrilateral, one angle is 70 degrees. Find its opposite angle.
8. Two chords of a circle are each at a distance of 4 cm from the centre.
Are they equal in length?
9. 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.
10. Find the area of an equilateral triangle of side 4 cm.
11. Find the area of a triangle with sides 3 cm, 4 cm and 5 cm using Heron's formula.
12. Find the area of a sector of angle 60 degrees in a circle of radius 21 cm.
13. Find the probability of getting an even number when a fair die is rolled once.
14. Find the probability of getting a number greater than 4 on a die.
15. A bag has 3 red and 5 blue balls. Find the probability of drawing a red ball.
16. Classify each as certain, impossible or likely: (a) the sun rises in the east, (b) getting 7 on a die.
17. A die is thrown 100 times and 4 appears 20 times. Find the experimental probability of getting 4 .
18. Find the 10 th term of the AP $3, 7, 11, \dots$
19. Which term of the AP $2, 5, 8, \dots$ is 32 ?
20. Find the sum of the first 20 natural numbers.

21. Find the n th term of the sequence 5, 9, 13, 17, ...
22. Is 100 a term of the AP 4, 8, 12, ...? Give a reason.
23. Find the sum of the first 15 terms of the AP 7, 11, 15, ...
24. Find the common ratio of the GP 3, 9, 27, ...
25. Find the 5th term of the GP 2, 4, 8, ...
26. Find the 6th term of the GP 1, 3, 9, ...
27. Check whether 2, 6, 18, 54 is a GP and find its common ratio.
28. Find the sum of the first 5 terms of the GP 1, 2, 4, ...
29. Find the sum: $1 + 2 + 3 + \dots + 50$.
30. Write the next two terms of the GP 80, 40, 20, ...

SUBJECT –ARTIFICIAL INTELLIGENCE

CLASS-IX

Activity 1 DREAM SMART HOME IDEA

You must be knowing what a smart home means. Well, it is a home with smart devices using a specialised technology called IoT (Internet of Things). A smart device (called a thing in this context) is an electronic device that is able to connect, share and interact with its user and other smart devices and IoT is a technology that forms a network of smart devices (things).

Let us play a game where you will design a dream smart home for you. Make groups of 4 students and discuss what should be your answer for the below given questions.

(1) List the most important things, which you need to connect with these devices.

(You may refer to: https://www.youtube.com/watch?v=jyMC_HAIzpg @0.33seconds)

(ii) Now think of the functionality you would want for your home.

(You may refer to the following videos to check for various technologies and functionalities available today:

https://www.youtube.com/watch?v=F-mEA5RN_yo).

<https://www.youtube.com/watch?v=9u9kqhHC6Ok>

(iii) Pick the devices you want for your dream smart home .

(iv) Pick the appropriate position for these in your dream smart home.

(v) Draw a layout of your dream smart home with all your selected devices

ART & CRAFT

Landscape Painting

Portrait Drawing

Indian Folk Art

(शरदकालीन अवकाश गृहकार्य)
कक्षा- 9th 2026-27 विषय- संस्कृत

1. 1-100 तक संस्कृत गिनती लिखकर याद करें। **इरावती** पृष्ठ सङ्ख्या 106-107 की मदद से।
2. निम्न विषयों पर अनुच्छेद 7-8 वाक्य संस्कृत में लिखिए-
 1. मम दिनचर्या 2- मम विद्यालयः 3- मम प्रिय कार्य 5. मम प्रिय मित्र
- 4- वस्तु परिचयः त्रिषु लिङ्गेषु **इरावती** (पृष्ठ संख्या 109-111) की मदद से लिखे और उनका अपनी दिनचर्या में प्रयोग करें।
- 5- विभक्तियाँ और उनके अर्थ **इरावती** (पृष्ठ संख्या 111-112) की मदद से अपनी उत्तर पुस्तिका में लिखे।
- 6- संस्कृत प्रतिज्ञा लिखो और याद करो।
- 7- पाँच श्लोक लिखें एवं याद करें।

 Autumn Break **Holiday**
Homework (2026-27)
Class: X

MATHS

KENDRIYA VIDHYALAYA NO.2 AFS SURATGARH

AUTUMN BREAK HOMEWORK

CLASS-X

1. Which term of the AP : 21, 18, 15, ... is -81 ? Also, is any term 0? Give reason for your answer.
2. Determine the AP whose 3rd term is 5 and the 7th term is 9.
3. Check whether -150 is a term of the AP : 11, 8, 5, 2 ...
4. Which term of the AP : 3, 15, 27, 39, ... will be 132 more than its 54th term?
5. How many three-digit numbers are divisible by 7?
6. State and prove Basic Proportionality Theorem.
7. Find the length of all the sides of a triangle whose vertices are $(1, -1)$, $(-4, 6)$ and $(-3, -5)$.
8. Find the coordinates of a point A, where AB is the diameter of a circle whose centre is $(2, -3)$ and B is $(1, 4)$.
9. Find the point on the x-axis which is equidistant from $(2, -5)$ and $(-2, 9)$.
10. Find a relation between x and y such that the point (x, y) is equidistant from the point $(3, 6)$ and $(-3, 4)$.
11. Show that the points $(1, 7)$, $(4, 2)$, $(-1, -1)$ and $(-4, 4)$ are the vertices of a square.
12. Evaluate $2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$
13. If $\sin(A - B) = 1/2$ $\cos(A + B) = 1/2$ where $0^\circ < A + B \leq 90^\circ$, $A > B$, find A and B.
14. Prove that $(\sin A + \operatorname{cosec} A)^2 + (\cos A + \sec A)^2 = 7 + \tan^2 A + \cot^2 A$
15. Prove that : $\sec A (1 - \sin A)(\sec A + \tan A) = 1$.
16. Prove that : $(\operatorname{cosec} \theta - \cot \theta)^2 = 1 - \cos \theta / 1 + \cos \theta$

17. The shadow of a tower standing on a level ground is found to be 40 m longer when the Sun's altitude is 30° than when it is 60° . Find the height of the tower.
18. The angle of elevation of the top of a building from the foot of the tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60° . If the tower is 50 m high, find the height of the building.
19. From the top of a 7 m high building, the angle of elevation of the top of a cable tower is 60° and the angle of depression of its foot is 45° . Determine the height of the tower.
20. The angles of depression of two ships from the top of a lighthouse and on the same side of it are found to be 45° and 30° . If the ships are 200 m apart, find the height of the lighthouse.
21. How many tangents can a circle have?
22. Prove that the tangent at any point of a circle is perpendicular to the radius through the point of contact.
23. A quadrilateral ABCD is drawn to circumscribe a circle. Prove that $AB + CD = AD + BC$.
24. Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line-segment joining the points of contact at the centre.
25. Prove that the parallelogram circumscribing a circle is a rhombus.
26. The area of a circle is 154cm^2 . Find the length of arc making an angle 60° at the centre. Find the area of the sector of a circle with radius 14cm and angle 30° .
27. A solid is in the shape of a cone standing on a hemisphere with both their radii being equal to 1 cm and the height of the cone is equal to its radius. Find the volume of the solid in terms of π .

28. A vessel is in the form of an inverted cone. Its height is 8 cm and the radius of its top, which is open, is 5 cm. It is filled with water up to the brim. When lead shots, each of which is a sphere of radius 0.5 cm are dropped into the vessel, one-fourth of the water flows out. Find the number of lead shots dropped in the vessel.

29. A container shaped like a right circular cylinder having diameter 12 cm and height 15 cm is full of ice cream. The ice cream is to be filled into cones of height 12 cm and diameter 6 cm, having a hemispherical shape on the top. Find the number of such cones which can be filled with ice cream.

Autumn Break **Homework: English Language & Literature (Class X)**

Autumn Break Consolidation & Skill Enhancement

Overview & Objective

Dear Students, The upcoming autumn break is an ideal opportunity to consolidate your learning, strengthen your textual comprehension, and refine your writing and analytical skills. While thorough "by-heart" reading and intensive revision of the prescribed literature texts form the core of this assignment, this holistic holiday homework is designed to cover all crucial linguistic aspects—ranging from literary appreciation and creative expression to structural grammar and competency-based thinking.

Please complete the following sections neatly in your English notebook or as designated below.

Part 1: Comprehensive Literary Consolidation ***(First Flight & Footprints Without Feet)***

Thoroughly read and revise the chapters and poems scheduled during the break period to ensure complete command over the narrative details, character arcs, and core themes.

- **Prose Comprehension Focus:**

- *The Sermon at Benares & The Proposal*
- *A Triumph of Surgery, The Thief's Story, & The Midnight Visitor*
- *A Question of Trust, The Making of a Scientist, The Necklace, Bholi, and The Book That Saved the Earth*
- **Poetry & Literary Appreciation Focus:**
 - *Fog, A Tale of Custard the Dragon, For Anne Gregory*, and a comprehensive review of all literary devices, mood, and tone across the prescribed poems.
- **Written Assignment:** For any **three** prose pieces of your choice from the list above, draft a detailed character sketch or a thematic comparison (approx. 100–120 words each) highlighting how the protagonist overcomes a major conflict.

Part 2: Grammar & Structural Accuracy Practice

To ensure flawless precision in your writing section and upcoming assessments, complete targeted exercises for the following syllabus items:

- **Subject-Verb Agreement:** Identify and correct common concord errors in a self-selected passage of 100 words from a newspaper editorial.
- **Reported Speech:** Convert 5 dialogue exchanges from your literature reader into indirect speech,

paying close attention to reporting verbs and tense shifts.

- **Modals & Tenses:** Design a 5-item fill-in-the-blank practice exercise focusing on modal auxiliaries (expressing advice, necessity, and probability) and integrated tense consistency.
- **Determiners:** Review the correct usage of quantifiers and demonstratives by creating a quick-reference revision table with illustrative examples.

Part 3: Advanced Writing & Competency-Based Tasks

Demonstrate your creative flair and structured thinking through the following guided compositions:

- **Analytical Paragraph:** Write a 120-word analytical paragraph based on a visual chart or data trend depicting environmental changes or literacy rates over the past decade. Ensure clear introduction, body comparison, and conclusion.
- **Formal Letter:** Draft a formal letter of inquiry or complaint to a municipal authority regarding civic issues in your neighborhood, adhering strictly to the standard CBSE format, layout, and polite yet firm tone.

Note for Students: Bring your completed holiday homework notebooks on the day school reopens. Use this break to clear your backlogs, organize your notes, and arrive fully prepared for the upcoming comprehensive revision tests.

SUBJECT_SST

- 1. Prepare a timeline of major events of the Indian National Movement.
- 2. Explain the role of Mahatma Gandhi in the Civil Disobedience Movement.
- 3. Prepare a comparative chart of national and regional political parties.
- 4. Explain how gender, religion and caste influence Indian politics.
- 5. Prepare a chart on major crops of India, their climatic conditions and producing states.

SUBJECT-HINDI

click here for hindi HHW

https://drive.google.com/file/d/1D_Uvg79uOLep2BjFggx95moANaIV5dsm/view?usp=sharing

कक्षा 10वीं

*शरद ऋतु अवकाश गृहकार्य

2025-26

1. अपने विद्यालय के प्राचार्य को चरित्र प्रमाण पत्र प्राप्त करने के लिए प्रार्थना-पत्र लिखें।
2. आपके शहर में सभी प्रकार के खाद्य पदार्थों में मिलावट का धंधा लगातार बढ़ता ही जा रहा है आपके राज्य के खाद्य मंत्री को dfpd@gov.in पर एक ईमेल लिखकर इस समस्या के प्रति उनका ध्यान आकृष्ट कीजिए।
3. छात्रों के लिए खेल सामग्री उपलब्ध कराने का अनुरोध करते हुए अपने प्रधानाचार्य महोदय को kvs@gmail.com पर एक ईमेल लिखें।
4. निम्नलिखित बिंदु पर अनुच्छेद लिखें- (क) भूमंडलीय तापमान (ग्लोबल वार्मिंग) कारण और निवारण
ख) अंतरिक्ष में भारत के बढ़ते कदम
ग) योग और छात्र जीवन
घ) समय सबसे बलवान होता है
5. काव्य खंड की सभी कविताओं के पाठ का सार लिखना है
7. PT-2 परीक्षा प्रश्न पत्र का सही हल लिखें।
8. गद्य खंड के पाठों के प्रश्न उत्तर याद करने है ।

SUBJECT-Science

click here for science HHW

https://drive.google.com/file/d/1wd8fYPKA8d_USHLNjqrqJILM-huMr8qf/view?usp=drive_link

ARTIFICIAL INTELLIGENCE

HOLIDAY'S HOMEWORK CLASS X

**1. Practical File to be completed upto For Loop programs.
(15 Program with output)**

