

KENDRIYA VIDYALAYA

WINTER VACATION HOMEWORK

CLASS X — ENGLISH

Academic Session: 2026–27

Name: _____
Class / Section: _____
Roll No.: _____
School: _____

Instructions

1. Complete all written work neatly in your English notebook or on A4 sheets as instructed by your teacher.
2. Write answers in your own words. Use correct spelling, punctuation and grammar.
3. For literature questions, follow the chapters and poems prescribed by your school for the current session.
4. Attach the project work with a cover page, index and bibliography where applicable.

Note: This is a sample CBSE/KV-style practice assignment, not an official school-issued homework circular. Please verify chapter selection with your English teacher.

SECTION A — READING SKILLS

Q1. Read the passage and answer the questions.

Reading is more than a way to collect information; it is a habit that develops patience, imagination and independent thinking. A reader learns to look at the world from different points of view. Books can introduce us to places we have never visited and people whose experiences are very different from our own. In a world filled with short messages and constant notifications, sustained reading also trains the mind to concentrate. However, reading should not become a race to finish the greatest number of pages. It is more useful to pause, reflect and connect ideas with real life. Students can build a reading habit by choosing subjects they enjoy, setting aside a regular time each day and keeping a notebook of new words or interesting thoughts. Even fifteen minutes of thoughtful reading daily can gradually make a difference.

Answer in complete sentences:

- a) Mention two benefits of reading given in the passage.
- b) How does sustained reading help students in a world of notifications?
- c) Why should reading not become a race?
- d) Suggest two ways to develop a reading habit.
- e) Find a word from the passage that means “careful consideration”.
- f) Give a suitable title to the passage.

Q2. Case-based reading practice

A school conducted a survey of 200 students about their preferred way to spend free time. The results were: reading books — 25%; outdoor games — 30%; watching videos — 20%; creative hobbies — 15%; helping at home — 10%.

- a) Which activity was the most popular?
- b) What percentage preferred creative hobbies?
- c) How many students preferred reading books?
- d) What is the difference between outdoor games and watching videos in percentage points?
- e) Write one conclusion that can be drawn from the survey.

SECTION B — GRAMMAR

Q3. Fill in the blanks with suitable words/forms.

- a) If I _____ (know) about the meeting, I would have attended it.
- b) Neither of the boys _____ (be) present yesterday.
- c) The teacher asked me where I _____ (live).
- d) You _____ respect your elders. (modal)
- e) By next month, she _____ (complete) the course.

Q4. The following sentences contain errors. Rewrite them correctly.

- a) Each of the players have a uniform.
- b) She is senior than me.
- c) He did not went to school.
- d) The news are very encouraging.
- e) I prefer tea than coffee.

Q5. Change the following into reported speech.

- a) Riya said, "I am preparing for my examination."
- b) The teacher said to the class, "Submit your notebooks tomorrow."
- c) Aman asked me, "Have you completed the project?"
- d) Mother said to me, "Do not waste your time."

Q6. Complete the sentences using appropriate determiners or prepositions.

- a) There is _____ milk left in the bottle. (little / few)
- b) He has been waiting _____ two hours. (for / since)
- c) She is good _____ mathematics. (at / in)
- d) I saw _____ European tourist at the museum. (a / an)
- e) We should be kind _____ animals. (to / with)

Q7. Combine each pair of sentences as directed.

- a) He was tired. He continued working. (Use "although")
- b) The bell rang. The students entered the classroom. (Use "as soon as")
- c) This is the girl. She won the debate. (Use a relative clause)

SECTION C — WRITING SKILLS

Q8. Formal letter (120–150 words)

Write a letter to the Editor of a newspaper expressing concern about the increasing use of single-use plastic in your locality. Suggest practical steps that residents and local authorities can take.

Q9. Analytical paragraph (100–120 words)

Study the data below and write an analytical paragraph comparing the students’ participation in three school activities.

Activity	2025	2026
Sports	40 students	55 students
Debate	25 students	35 students
Art Club	30 students	28 students

Q10. Article writing (150–180 words)

Write an article for your school magazine on “Responsible Use of Social Media by Teenagers”. Include benefits, possible risks and practical ways to stay safe online.

Q11. Story writing (150–200 words)

Complete a story beginning with: “When I opened the old notebook, a folded letter slipped out...” Give your story a suitable title and a meaningful ending.

SECTION D — LITERATURE

Answer the following with reference to the prescribed Class X English textbook. Use the chapters/poems taught in your school during the session.

Q12. First Flight — prose

Answer any five in about 40–50 words each:

- a) How does the main character in a story you have studied show courage or determination?
- b) Describe a moment when a character learns an important lesson.
- c) How does the writer create humour or irony in one prescribed chapter?
- d) What role does family or friendship play in one chapter?
- e) Explain how the setting influences the events of a story.
- f) Which character did you find most inspiring and why?

Q13. First Flight — poetry

Answer any four in about 40–50 words each:

- a) Explain the central idea of any one prescribed poem.
- b) Identify one poetic device used in a poem and explain its effect.
- c) How does imagery help communicate the poet's message?
- d) Describe the mood of a poem and support your answer with an example.
- e) What lesson or value do you take away from a poem you studied?

Q14. Footprints Without Feet — supplementary reader

Answer any four in about 40–50 words each:

- a) Describe a conflict faced by a character in a prescribed story.
- b) How do the character's choices affect the outcome?
- c) Explain the title of any one story.
- d) What message does the story convey?
- e) Compare two characters from different stories on the basis of their decisions.

Q15. Long answer (100–120 words)

Choose one prescribed chapter or story and explain how it communicates a message about human values, responsibility or personal growth. Support your response with relevant events from the text.

SECTION E — PROJECT & CREATIVE TASKS

Q16. Reading project

Read one age-appropriate short story, biography or novel approved by your teacher. Prepare a 2–3 page book review containing: title and author, a brief summary, two important characters or ideas, your favourite part, the message of the book and your personal opinion.

Q17. Vocabulary notebook

Collect 20 new English words from your reading. For each word, write its meaning, part of speech and one original sentence. Underline the word in each sentence.

Q18. Speaking activity

Prepare a 2-minute speech on ONE topic:

- Small actions can make a big difference.
- Should homework be project-based?
- The importance of kindness in school.
- Learning from failure.

Q19. Poster / slogan

Create a neat poster on “Read More, Grow More” or “Say No to Plastic”. Include a clear heading, a meaningful slogan and suitable illustrations.

Q20. Reflection

Write a paragraph of 100–120 words on: “One skill I want to improve this year and the steps I will take to improve it.”

SUBMISSION CHECKLIST

- Reading comprehension and case-based questions completed
- Grammar exercises completed
- Writing tasks completed in the required word limit
- Literature answers based on prescribed chapters
- Project, vocabulary notebook and poster attached

Best wishes for a productive winter vacation!

शरदकालीन अवकाश गृहकार्य

कक्षा - 10वीं | विषय - हिंदी

सामान्य निर्देश

सभी प्रश्नों के उत्तर हिंदी की कॉपी में साफ-सुथरी लिखावट में लिखें।

गृहकार्य स्वयं करें।

1. मैं क्यों लिखता हूँ पाठ का अध्ययन कर सारांश अपने शब्दों में लिखें।
2. पद परिचय किसे कहते हैं विस्तार पूर्वक वर्णन करें।
3. वाक्य के भेद उदाहरण सहित लिखिए।
4. 'संगतकार' कविता का संदेश अपने शब्दों में लिखिए।
5. अपने विद्यालय के पुस्तकालय में हिंदी की नई पुस्तकें मँगवाने का अनुरोध करते हुए विद्यालय के प्रधानाचार्य को लगभग 80 शब्दों में एक ई-मेल लिखिए।

AUTUMN BREAK HOLIDAY HOMEWORK

Mathematics|Class10

Kendriya Vidyalaya Lohardaga Session2026-27

AutumnBreak:15October2026to24October2026(10days)

Revisionofchapterscompletedbeforethebreak(aspertheSplit-UpSyllabus)

Day1:RealNumbersandPolynomials

1. FindtheHCFandtheLCMof26and91,andverifythatHCFxLCM=productofthenumbers.
2. Provethatthesquarerootof5isirrational.
3. Findthezeroesof x^2-5x+6 .
4. Findaquadraticpolynomialwhosezeroesare3and-2.
5. Iftheproductofthezeroesof x^2-7x+k is12,findk.
6. Withoutdividing,statewhether $13/125$ hasaterminatingoranon-terminatingdecimalexpansion.
7. FindtheHCFof96and404byprimefactorisation.
8. Findthezeroesof x^2-4 .

Day2:PairofLinearEquationsinTwoVariables

1. Solve: $x+y=10$ and $x-y=2$.
2. Solvebysubstitution: $2x+3y=12$,given $x=3$.
3. Forwhatvalueofkdo $2x+3y=7$ and $4x+6y=k$ haveinfinitelymanysolutions?
4. Solve: $3x+2y=12$ and $5x-2y=4$.
5. Checktheconsistencyof: $x+2y=5$ and $3x+6y=15$.
6. Thesumoftwonumbersis35andtheirdifferenceis13.Findthenumbers.
7. Solve: $7x+6y=3800$ and $3x+5y=1750$.
8. Fiveyearsagoafatherwasthreetimesasoldashisson.Writealinearequationforthissituation.

Day3:QuadraticEquations

1. Solvebyfactorisation: $x^2-7x+12=0$.
2. Solveusingthequadraticformula: $x^2-5x+6=0$.
3. Findthenatureoftherootsof $2x^2-4x+3=0$.
4. Findkif $x^2+kx+9=0$ hasequalroots.
5. Solve: $x^2-9=0$.
6. Theproductoftwoconsecutivepositiveintegersis306.Findtheintegers.
7. Solve: $2x^2+x-6=0$.
8. Findtherootsof $x^2+4x+4=0$.

Day4:ArithmeticProgressions

1. Findthe10thtermoftheAP2,7,12,...
2. Findthesumofthefirst20termsoftheAP3,7,11,...
3. WhichtermoftheAP5,8,11,...is50?
4. FindthecommondifferenceoftheAP $1/2, 1, 3/2, \dots$
5. Findthesumofthefirst15multiplesof8.
6. The5thtermofanAPis19andthe10thtermis39.FindtheAP.
7. Howmanytwo-digitnumbersaredivisibleby3?
8. Findthe21sttermoftheAP-4,-1,2,...

Day5:Triangles

1. StatetheBasicProportionalityTheorem(Thalestheorem).
2. IntriangleABC,DEisparalleltoBC,AD=3cm,DB=5cmandAE=4.5cm.FindEC.
3. Twotrianglesaresimilarandtheircorrespondingsidesareintheratio2:3.Findtheratiooftheirareas.
4. Checkwhethertriangleswithsides3,4,5and6,8,10aresimilar.
5. IntwotrianglesABCandDEF,angleA=angleDandangleB=angleE.Namethesimilaritycriterion.

- The areas of two similar triangles are 81 cm^2 and 49 cm^2 . Find the ratio of their corresponding sides.
- State the Pythagoras theorem.
- A vertical pole 6m high casts a shadow 4m long. Find the height of a tree that casts a shadow 10m long at the same time.

Day6: Coordinate Geometry

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

Day7: Trigonometry and Its Applications

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

Day8: Circles and Areas Related to Circles

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

Day9: Surface Areas and Volumes

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

Day10: Mixed Revision

- Find the HCF and the LCM of 12, 15 and 21.
- Find the zeroes of $x^2 + 7x + 10$.
- Solve: $2x + y = 8$ and $x - y = 1$.
- Find the 15th term of the AP 7, 11, 15, ...
- Find the distance between (-5,7) and (-1,3).

6. Evaluate: $\sin 60^\circ \cos 30^\circ + \cos 60^\circ \sin 30^\circ$.
7. Find the area of a circle of diameter 28 cm.
8. Find the volume of a cube of edge 6 cm.





Edit with WPS Office

Class – X
Carbon & its Compounds
Assignment

1. Name the functional group present in propanone (acetone) and hexanal.
2. (a) What is a functional group in a carbon compound? Identify the functional group present in CH_3COOH and $\text{C}_2\text{H}_5\text{OH}$.
3. Write the structural formula of two isomers of n- pentane C_5H_{12} .
4. Name the properties of carbon that makes it versatile in nature.
5. (a) Why does carbon form compounds mainly by covalent bonding?
(b) Why do covalent compounds have low melting and boiling points?
6. What is a homologous series of compounds? List any two characteristics of a homologous series. Write two examples of homologous series.
7. (a) Why does carbon form compounds mainly by covalent bonding?
(b) List any two reasons for carbon forming a very large number of compounds.
8. Draw the electron dot structure of the following compounds:-
(i) Cyclopentane (ii) Butyne (iii) Ethene (iv) Sulphur molecule
9. How would you name the following compounds?
(i) $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{Cl}$
(ii) $\begin{array}{c} \text{H} \\ | \\ \text{H} - \text{C} = \text{O} \end{array}$
(iii) $\begin{array}{ccccccc} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \\ & | & | & | & | & | & \\ \text{H} - & \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & \equiv \text{C} - \text{H} \\ & | & | & | & | & | & \\ & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \end{array}$
10. Draw the structures for the following compounds:-
(i) Propanoic acid (ii) Hexanone (iii) Fluoropentane
(iv) Benzene (v) Butene

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AUTUMN BREAK HOLIDAY HOMEWORK

CLASS X – BIOLOGY

Chapter: Our Environment

Homework: Students are required to prepare neat and complete notes of the entire chapter “*Our Environment*” during the Autumn Break. Write the notes carefully in your Biology notebook.

Instructions: Complete the work neatly and bring your Biology notebook after the holidays.

Have a safe and enjoyable Autumn Break!

Q1.

Which of the following units is equivalent to 1 Volt?

- A) 1 Joule / Second
- B) 1 Joule / Coulomb
- C) 1 Ampere / Ohm
- D) 1 Coulomb / Second

Q2.

If the resistance of a conductor is doubled while keeping the potential difference constant, the electric current passing through it becomes:

- A) Doubled
- B) Quadrupled
- C) Halved
- D) Remains the same

Q3. State Ohm's Law. Write the mathematical expression representing the relationship between Potential Difference (V), Electric Current (I), and Resistance (R).

Q4. Why are copper and aluminium wires usually employed for electricity transmission, while tungsten is used almost exclusively for filament bulbs?

Q5.

An electric iron draws a current of 3.5 A from a 220 V supply line. Calculate:

- a) The electrical resistance of the element.
- b) The energy consumed (in Joules) if it is operated continuously for 2 hours.

Q6.

Three resistors of resistance 4 Ω , 6 Ω , and 12 Ω are connected in parallel. Calculate the equivalent resistance of the combination.

Q7.

Explain Joule's Heating Effect of electric current. Derive the expression for heat generated ($H = I^2Rt$) in a conductor of resistance R carrying current I for time t.

Q8.

Define 1 Ampere and 1 kWh (Kilowatt-hour). Convert 1 kWh into Joules.

Q9.

A cylindrical wire of length L and radius r has a resistance R. What will be the new resistance of another wire of the same material having length 2L and radius 2r?

Q10.

An electric circuit consists of a 12 V battery connected in series with a 5 Ω resistor, a 10 Ω resistor, and a lamp of resistance 15 Ω .

- a) Draw the schematic circuit diagram.

- b) Calculate total resistance of the circuit.
- c) Calculate current flowing through the circuit.
- d) Calculate potential difference across the $15\ \Omega$ lamp.

KENDRIYA VIDYALAYA LOHARDAGA

AUTUMN BREAK HOLIDAY HOMEWORK

Class X | Subject: Artificial Intelligence (AI – 417)

A. Employability Skills

1. Define communication. Mention any three barriers to effective communication.
2. What is self-management? Write four ways to manage stress during examinations.
3. Differentiate between verbal and non-verbal communication with two examples.
4. What is a SMART goal? Write one SMART academic goal for yourself.
5. Explain any three ways in which ICT is useful in education.

B. Subject-Specific Skills

1. What is Artificial Intelligence? Write any four applications of AI used in everyday life.
2. Explain the five stages of the AI Project Cycle: Problem Scoping, Data Acquisition, Data Exploration, Modelling and Evaluation.
3. What is the difference between supervised and unsupervised learning? Give one example of each.
4. Define data, information and dataset. Explain why data quality is important for an AI system.
5. What are the three domains of AI? Name them and give one example for any two domains.

C. Case-Based Questions

Read the case and answer the questions.

A school wants to develop an AI-based system to help identify students who may need additional academic support. The system may use attendance records, assessment scores and assignment completion data. The school must protect students' privacy and ensure that the system does not unfairly label any student.

1. Identify the problem the school wants to solve.
2. Mention two types of data that could be collected.
3. Suggest one way to protect students' privacy.
4. Why should the system be checked for bias?
5. How could teachers use the system's output responsibly?

KENDRIYA VIDYALAYA LOHARDAGA
HOLIDAY HOMEWORK
AUTUMN BREAK 15.10.2026 to 24.10.2026)
CLASS – X
SOCIAL SCIENCE

1. Explain the measures and practices introduced by the French revolutionaries to create a sense of collective identity amongst the French people.

2. Do Map practice of History and Geography.

3. “The silk routes are a good example of pre-modern trade and cultural links between distant parts of the world.” Explain with examples.

4. Compare the employment conditions prevailing in the organized and unorganized sectors.

5. Who proclaimed dams as the temples of modern India? Why?

6. “Power sharing is the very spirit of democracy.” Justify this statement with three suitable points.

7. The Government of India has invited some suggestions for institutional reforms in agriculture. Propose any five institutional reforms to the Government for the betterment of agriculture.