

PM SHRI KENDRIYA VIDYALAYA PITAMPURA (SHIFT-2)
AUTUM BREAK HOLIDAY HOMEWORK SESSION (2026-27)

CLASS 3

SUBJECT	Homework	Section	
English			
Hindi			
Maths			
EVS			

CLASS 4

SUBJECT	Homework	Section
ENGLISH	English	A and B
Maths	Mathematics	
EVS	TWAU	

हिंदी		

CLASS 5

SUBJECT	Homework	Section
Maths		A+B
Hindi		A+B
EVS		A+B
English		A+B

CLASS 6

SUBJECT		
ENGLISH	PM SHRI KENDRIYA VIDYALAYA PITAMPURA, SHIFT II <u>AUTUMN BREAK HOLIDAY HOMEWORK (2026–27)</u> Subject: English Class: VI General Instructions	

1. Complete all four activities neatly and creatively.
2. Holiday homework must be done in a separate thin notebook or a separate file.
3. Use colourful headings, drawings and pictures wherever required.

Activity 1: Hamara Bharat – Incredible India!

Theme: Unity in Diversity

Create a colourful “Incredible India” collage featuring any four Indian states. Include one famous festival, traditional dress, local food or folk art associated with each state. Write one sentence about each state and add a catchy slogan celebrating India’s unity in diversity.

Activity 2: Yoga – A Way of Life

Theme: My Yoga and Wellness Diary

Prepare a creative wellness diary for three days. Draw or paste pictures of any three yoga poses you know. Write the name of each pose and one sentence describing how it may help you stay healthy, calm or focused. End with a short slogan on the importance of yoga.

Activity 3: Writing Skills – A Letter to My Future Self

Imagine that you are writing a letter to yourself five years from now. Write a letter of 100–120 words describing your dreams, the qualities you want to develop, your favourite activities and the kind of person you wish to become. Decorate the page with a suitable border and a motivational quote.

Activity 4: Grammar Fun – Adjective Detective

Become an “Adjective Detective”! Draw or paste a picture of a park, classroom, garden or market. Write ten sentences describing the picture using suitable adjectives. Underline the adjectives in each sentence and classify them into these categories wherever applicable:

	· Adjectives of quality · Adjectives of quantity · Adjectives of number <i>Happy Holidays! Read, explore, create and enjoy learning English!</i>	
हिंदी	*कक्षा 6 वीं* *शरद ऋतु अवकाश गृहकार्य 2026 -2027 1. 10 पृष्ठ सुलेख लिखें। 2. "माँ" विषय पर कविता लिखना व याद करना। 3. अनुच्छेद लेखन i) अनुशासन ii) स्वच्छता iii) समय का महत्व iv) मेरा प्रिय त्योहार v) मेरा प्रिय खेल । 4. 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें। 6. "पानी" शब्द से 10 मुहावरे लिखें उसके अर्थ लिखकर वाक्य भी बनाएं। 7. राष्ट्र-गान , राष्ट्रीय गीत, प्रतिज्ञा और विद्यालय प्रार्थना याद करें और लिखें।	
MATHS	Q1. Use a protractor to draw angles having the following degree measures: a. 110° b. 40° c. 75° d. 112° e. 134° Q2.A) . Draw the letter 'M' such that the angles on the sides are 40° each and the angle in the middle is 60°. B) Draw the letter 'Y' such that the three angles formed are 150°, 60° and 150° Q3.Puzzle: I am an acute angle. If you double my measure, you get an acute angle. If you triple my measure, you will get an acute angle again. If you quadruple (four times) my measure, you will get an acute angle yet again! But if you multiply my measure by 5, you will get an obtuse angle measure. What are the possibilities for my measure?(PAGE 54) Q4.DIGIT DETECTIVES: Among the numbers 1–100, how many times will the digit '7' occur? (PAGE 61 FROM GANIT PRAKASH) Q5.Puzzle time Write the number in words: I am a 5-digit palindrome. I am an odd number. My 't' digit is double of my 'u' digit. My 'h' digit is double of my 't' digit. Who am I? _____(ACTIVITY PAGE 62)	

	Q6. Write all possible 3-digit palindromes using these digits.(1,2,3) (ACTIVITY PAGE 61) Q7. How many rounds does the number 5683 take to reach the Kaprekar constant? (page 65) HINT: You will always reach the magic number '6174'! The number '6174' is now called the 'Kaprekar constant' Q8. The time now is 10:01. How many minutes until the clock shows the next palindromic time? What about the one after that? (page 65) Q9. Write any 5 CLOCK NUMBERS AND 5 CALENDER NUMBERS . (page 65) Q10. Solve (PAGE 66) Of book.	
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NCERT
NCERT

CLASS 6 SCIENCE: AUTUMN & WINTER HOLIDAY HOMEWORK

PM SHRI KENDRIYA VIDYALAYA NODIA

CREATIVE SCIENCE ADVENTURE

TASK 1: WEATHER & MEASUREMENT

Become a weather reporter! Collect data and label its parts and scales ($^{\circ}\text{C}$ & $^{\circ}\text{F}$)

Track the weather for 5 days

Record high/low temperatures, rainfall, wind speed.

TASK 2: MAKE A WATER CYCLE

CONDENSATION
EVAPORATION
PRECIPITATION
SURFACE RUN-OFF
FREEZING

TASK 4: DOCUMENTING SEPARATION

Become a separation expert

Collect or draw detailed pictures or diagrams of separation techniques

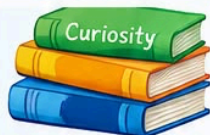
SST	1. Draw or paste 3 dishes from different Indian states (e.g., Idli, Dhokla, Makki ki Roti) and write 1 line on the main crop used in each. 2. List 4 basic duties of the Municipal Corporation in your area and write 2 habits citizens must follow to help them keep the city clean. 3. Draw and color a simple profile showing a Mountain, a Plateau, and a Plain side by side, labeling one feature for each. 4. "Journey of a Cotton Shirt" (Production Chain): Draw a simple 4-step flowchart showing how cotton travels from the farmer (Primary) to the textile factory (Secondary) to the retail shop (Tertiary). 5. Harappan Town Planner: Draw a neat sketch of an Indus Valley covered street drain and the Great Bath, adding 3 bullet points on how clean their cities were.	
SKT	1. पठ् धातु के लट्, लकार के रूप लिखें व याद करें, 2. निम्नलिखित सर्वनाम शब्दों के हिन्दी अर्थ लिखो । सः, तौ, ते, एषः, एतौ, एते, सा, ते, ताः, एषा, एते, एताः त्वम् युवाम् यूयम् अहम्, आवाम्, वयम् 3. 10 शब्द पुल्लिङ्ग, 10 शब्द स्त्रीलिङ्ग और 10 शब्द नपुंसकलिङ्ग संस्कृत में लिखें व याद करें, 4. संस्कृत प्रतिज्ञा लिखें व याद करें, 5. अतिथिः देवोभव व बुद्धिः सर्वार्थसाधिका इन दोनों पाठों का संपूर्ण अभ्यासकार्य याद करें, 6. 1 से 20 तक संख्या संस्कृत में लिखे व याद करें,	
COMP		
Work Education		
DRAWING		

CLASS 7

SUBJECT		
HINDI	*कक्षा 7वीं* *शरद ऋतु अवकाश गृहकार्य 2026-27	

	1. अनुच्छेद लेखन i) अनुशासन ii) स्वच्छता iii) समय का महत्व iv) मोबाइल फोन v) महंगाई की समस्या। 2. 10 पर्यायवाची शब्द, 10 विलोम शब्द, 10 मुहावरे लिखें। 3. फास्टफूड के 5 फायदे और 5 नुकसान लिखें। 4. अपने प्रिय मित्र को अपनी किसी मनपसंद यात्रा के विषय में बताते हुए पत्र लिखें। 5. 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें। 6. राष्ट्र-गान, राष्ट्रीय गीत, प्रतिज्ञा और विद्यालय प्रार्थना याद करें और लिखें।	
ENGLISH	PM SHRI KENDRIYA VIDYALAYA PITAMPURA, SHIFT II AUTUMN BREAK HOLIDAY HOMEWORK (2026–27) Subject: English Class: VII Textbook: NCERT Poorvi General Instructions - Complete all four activities neatly and creatively. - Holiday homework must be done in a separate thin notebook or a separate file. - Use colourful headings, drawings and pictures wherever required. Activity 1: Conquering the Summit – My Mountain of Dreams Inspired by the lesson Conquering the Summit, draw a mountain and label its peak “My Dream.” Write your biggest dream at the top. On the way to the summit, mention five steps you will take to achieve your dream. Write a short motivational paragraph of 60–80 words explaining how determination and hard work can help you succeed. Activity 2: A Homage to Our Brave Soldiers – Salute to Our Heroes Create a colourful “Wall of Gratitude” dedicated to the brave soldiers of India. Paste or draw pictures related to the Indian Armed Forces. Write five meaningful sentences expressing your gratitude towards soldiers and add an original patriotic slogan. Activity 3: Creative Writing – A Letter to My Future Self Imagine that you are writing a letter to yourself ten years from now. Write an informal letter of 100–120 words describing your dreams, ambitions, the values you wish to follow and the kind of person you want to become. Decorate your letter creatively and include a motivational quote. Activity 4: Grammar Fun – Tense Time Machine Create a colourful “Tense Time Machine” chart showing the three main tenses: Past, Present and Future. - Write the rules and sentence structures of Simple Present, Simple Past and Simple Future Tense. - Write five sentences about your daily routine in the Simple Present Tense.	

	• Change the same five sentences into the Simple Past and Simple Future Tenses. • Use colourful illustrations or a timeline to show the difference between the three tenses. Happy Holidays! Keep reading, stay creative and enjoy learning English!	
MATHS		



KENDRIYA VIDYALAYA NFC VIGYAN VIHAR

HOLIDAY HOMEWORK

SCIENCE – CLASS VII

NCERT Curiosity | 10 Days | Aligned with NEP 20

Science Around Us – Observe, Explore, Experiment and Learn



General Instructions:

- Complete the work neatly in a separate science notebook or scrapbook.
- Write answers in your own words and use labelled diagrams wherever required.
- Perform only simple, safe activities with the help of an adult.
- Do not taste or clean anything.
- Record your observations.
- Use the NCERT Curiosity.

Day 1

My Scientific World

Science Around Me

1. Identify five objects/situations at home where science is involved.
2. Write the scientific principle or concept associated with each.
3. Choose one example and explain how it makes daily life easier.
4. Write three questions about the natural world that you would like to investigate.

NEP 2020 Focus:
Observation, curiosity and scientific temper.



Day 2

Acids, Bases and Neutral Substances

Household Substances Survey

1. Make a table of six household substances (lemon juice, curd, soap solution, baking soda solution, water, orange juice).
2. Write their likely nature (acidic / basic / neutral).
3. Mention one use of an acidic substance and one use of a basic substance.
4. Explain why unknown substances should never be tasted.

Extension: Draw a colourful pH scale and mark acidic, neutral and basic regions.



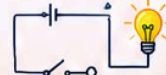
Day 3

Electricity: Circuits and Their Components

Draw and Explain an Electric Circuit

1. Draw a simple circuit with cell, wires, switch and bulb.
2. Label all components.
3. Explain open and closed circuit.
4. Write four electrical safety rules at home.
5. Explain why a bulb does not glow when the circuit is incomplete.

Art Integration:
Use standard circuit symbols and present the diagram neatly.



Day 4

The World of Materials

Materials Det

1. Observe five different materials.
2. Why are many things made of metal?
3. Why are electrical wires made of copper?
4. Why are some things made of non-metal?

Value Education:
Explain how recycling helps conserve resources.



Day 6

Heat Transfer in Nature

Follow the Heat

1. Explain conduction, convection and radiation.
2. Give one everyday example of each.
3. Draw a labelled diagram showing how water gets heated in a vessel.
4. Explain why we feel warmer in sunlight than in the shade.
5. Suggest two ways to keep a room cool in hot weather while conserving energy.

Integrated Learning:
Connect with environmental awareness and energy conservation.



Day 7

Measurement of Time and Motion

Motion Around Me

1. Observe a moving object (toy car, rolling ball or bicycle safely).
2. Record distance and time for three trials (if possible).
3. Calculate speed:
 $\text{Speed} = \text{Distance} \div \text{Time}$
4. Present your observations in a table.
5. State two factors causing differences in trials.

Important:
Use a safe, level area. Do not conduct on a road.



Day 8

Life Processes in Plants and Animals

Living Things Need Care

1. Draw a plant and label roots, stem, leaves and flowers.
2. Explain how each part helps the plant survive.
3. Write why living things need food, water and air.
4. Compare how plants and animals get food.
5. Observe a plant at home for two days and record one change.

Environmental Connection:
Suggest three ways to protect plants and local biodiversity.



Day 9

Light, Shadow and Reflection

Shadow and

1. Observe your shadow at different times of the day.
2. Record time and shadow length.
3. Explain why shadow changes.
4. Draw a labelled diagram showing shadow formation.
5. Write two uses of light.

Creative Task:
Make a poster titled "Light Helps Us".



Use sunlight directly.

Competency-Based Thinking Questions (Answer any five)

1. Why does a metal spoon feel colder than a wooden spoon?
2. A bulb does not glow. State three possible reasons.
3. Why is rusting different from melting of ice?
4. A student travels 60 metres in 20 seconds. Calculate speed.
5. Why should waste be segregated before disposal?
6. Why does a shadow change its size and position?
7. How can observing plants and animals help us understand our local environment?



Self-Reflection

Complete the following:

- The most interesting activity was _____
- One new scientific concept I learned was _____
- One question I still have is _____
- I can apply science in my daily life by _____

Assessment Rubric

Criterion
Scientific understanding and accuracy
Activities, observations and data recording
Application and competency-based answers
Diagrams, creativity and presentation
Environmental awareness and reflection
Neatness and independent effort
Total



Be Curious * Be Scientific * Be a Change

Teacher's Remarks: _____

Parent's Signature: _____

SST	*AUTUMN BREAK HOLIDAY* *HOMEWORK* *CLASS- VIIB (SOCIAL* *SCIENCE)* *1. Read & write one mark question from (15 questions from each chapter):-* (I) The Story of Indian Farming. (II) Empires and Kingdoms. *2. Map Work:-* *Activity 1: India and Her Neighbours* On a blank political map of South Asia, locate and label the following countries: (I) Pakistan (II) China (III) Nepal (IV) Bhutan (V) Bangladesh (VI) Sri Lanka *Activity 2: Water Bodies* On an outline map of India, mark and label the following: (I) Arabian Sea (II) Bay of Bengal (III) Indian Ocean	
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SKT	1. 'किम्' (क्या) शब्द के पुल्लिंग, स्त्रीलिंग, और नपुंसकलिंग में शब्दरूप लिखें व याद करें 2. पठ धातु के सभी लकारों में रूप लिखें व याद करें, 3. कोई पांच सुभाषित श्लोक अर्थसहित लिखें व याद करें, 4. निम्नलिखित सर्वनाम शब्दों के हिन्दी अर्थ लिखो । सः, तौ, ते, एषः, एतौ, एते, सा, ते, ताः, एषा, एते, त्वम्, युवाम्, यूयम् एताः अहम्, आवाम्, वयम् 5. संस्कृत प्रतिज्ञा लिखें व याद करें, 6. 1 से 20 तक संख्या संस्कृत में लिखो में याद करें	
COMP		
Work Education		
Drawing		

CLASS 8

SUBJECT		
ENGLISH	PM SHRI KENDRIYA VIDYALAYA PITAMPURA, SHIFT II AUTUMN BREAK HOLIDAY HOMEWORK (2026–27) Subject: English Class: VIII General Instructions - Complete all four activities neatly and creatively. - Holiday homework must be done in a separate thin notebook or a separate file. - Use colourful headings, illustrations and creative presentation wherever required. Activity 1: Spectacular Wonders – My Wonder of the World Choose any one natural or historical wonder that fascinates you. Draw or paste its picture and write 8–10 sentences about its location, special features and why you would like to visit it. Use at least five descriptive adjectives.	

	Activity 2: Harvest Hymn – A Poetic Expression Inspired by the poem Harvest Hymn, create a colourful poster on the theme “Gratitude to Farmers and Nature.” Write a catchy slogan and four original lines expressing the importance of farmers, crops and nature. Activity 3: Vocabulary Treasure Box Create your own Word Treasure Box with 15 new English words. For each word, write its meaning, one synonym and one sentence. Group the words under themes such as nature, emotions, food and everyday life. Activity 4: Grammar Corner – Reported Speech Prepare a creative grammar chart on Reported Speech. • Write the rules for changing direct speech into indirect speech. • Explain changes in tense, pronouns and words expressing time and place. • Give five examples of direct speech and their reported forms. • Use colourful headings and examples to make the chart attractive and easy to understand. Happy Holidays! Learn creatively, read regularly and keep exploring the world of English.	
HINDI	*कक्षा 8वीं* *शरद ऋतु अवकाश गृहकार्य 2026-27 1. 10 पर्यायवाची शब्द, 10 विलोम शब्द, 10 मुहावरे लिखें। 2. अनुच्छेद लेखन i) अनुशासन ii) पर्यावरण iii) समय का महत्व iv) मोबाइल फोन v) साइबर क्राइम। 3. पत्र लेखन i). अपने छोटे भाई को कुसंगति से बचने के लिए पत्र लिखें। ii). अपने मित्र को खेल में स्वर्ण पदक पाने पर शुभकामनाएं देते हुए पत्र लिखो। iii) अपने इलाके में बिजली कटौती को रोकने के लिए बिजली विभाग में पत्र लिखिए। 4. 10 दिन की छुट्टियों की अपनी दैनिक दिनचर्या पर परियोजना कार्य (Project Work) तैयार करें।	
MATHS	Answer the following questions in your regular CW copy and	

submit to me after school reopens :--

SECTION A(1 mark $\times$ 15 =15 marks)

(1)The improper fraction $\frac{35}{8}$ in the form of a mixed fraction is.

- (a) $\frac{43}{4}$ (b) $\frac{43}{8}$ (c) $\frac{37}{4}$ (d) $\frac{47}{8}$

(2) The Rational number $\frac{21}{28}$ in standard form is,
 $\frac{21}{28}$ (b) $\frac{3}{8}$ (c) $\frac{3}{4}$ (d) $\frac{2}{3}$

(3)A rational number is a number that can be put in the form $\frac{p}{q}$, where p and q are:

- (a) natural numbers and $q \neq 0$
(b) whole numbers and $q \neq 0$
(c) non-negative integers and $q \neq 0$
(d) integers and $q \neq 0$

(4)Perimeter of a semi circle is

- (a) $12\pi r^2$ (b) $\pi r + d$ (c) πr
(d) $3\pi r^2$

(5)The area of a square plot is 1600 m^2 . The side of the plot is

- (a) 40 m (b) 80 m (c) 120 m (d) 160 m

(6)The region occupied by a closed figure is called its :

- (a)Volume (b) Perimeter (c) Area (d) None of these

(7)What are the coefficients of x in the expression $8 - x + y$?

- (a)1 (b) -1 (c) 8 (d) none of these

(8)The value of the expression $a + b$ for $a=1$ and $b=1$

- (a)1 (b) 0 (c) -1
(d) 2

(9)The value of $(-1)^{55}$ is

- (a) -1 (b) 1 (c) 0 (d) none of these

(10)The exponential form of 216 is,

- 6^3 (b) 3^6 (c) 5^3
(d) 2^3

(11) The value of 5^3 is

- (a)15 (b) 125 (c) 5
(d) 3

(12)Which of the followings has both horizontal as well as vertical line of symmetry

- (a) S (b) A (c) U (d) H

(13)How many lines of symmetries are there in a square?

- (a) 1 (b) 2 (c) 3 (d) 4

(14) In the picture given below, the sum of dots facing up on both dice is 6. What would be the sum of dots facing down?

- (a) 7 (b) 8 (c) 9
(d) 10

(15) The number of faces in the given solid are ...

- 10 (b) 8 (c) 9
(d) 11

SECTION B (2 marks $\times$ 5 = 10 marks)

(16) The length and breadth of a rectangle piece of land are 50 m and 30 m respectively. Find its area.

OR

Find the area of square park whose side is 32 m.

(17) Find the value of expression $p^2 - 2p - 100$ for $x = -10$

OR

Find the value of expression $x^3 - 3(x - 10)$ for $x = 10$

(18) Express the following in exponential form:

- (a) $5 \times 5 \times 7 \times 7 \times 7$ (b) $a \times a \times a \times c \times c \times c \times c \times d$

(19) State the number of lines of symmetry for the following figures

- (i) An equilateral triangle (ii) An isosceles triangle

(20) What cross-section do you get when you give a

- Vertical cut to a round apple (ii) Horizontal cut to a die

SECTION C (3 marks $\times$ 4 = 12 marks)

(21) ABC is right angled at A. AD is perpendicular to BC. If AB = 5 cm, BC = 13 cm and AC = 12 cm, Find the area of $\triangle ABC$.

(22) Simplify the expression $2(a^2 + ab) + 3 - ab$ and Find its value $a = 5$ and $b = -3$

(23) Draw any three English alphabets having both horizontal and vertical line of symmetry.

OR

State the number of lines of symmetry for the following figures

- (i) A rectangle
(ii) A circle
(iii) A regular hexagon

(24) (i) What cross-sections do you get when you give a vertical cut to solid cylinder?

- (ii) What cross-sections do you get when you give a

horizontal cut to cricket ball?
 (iii) What cross-sections do you get when you give a horizontal cut to the brick?
 OR
 Match the nets with appropriate solids

SECTION D (5 marks $\times$ 3 = 15 marks)

(25) (i) Find three rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$

(ii) Find the value of $(-\frac{3}{8}) - \frac{7}{11}$

OR

(i) What number should be added to $\frac{7}{12}$ to get $\frac{4}{15}$?

(ii) Find the Product of $(-\frac{3}{8})$ to the reciprocal of $\frac{15}{8}$

(26) Find the value of the following expressions for $a = 3$, $b = 2$.

(i) $a^2 + b^2$

(ii) $a^2 - b^2 + 2ab$

OR

Simplify the expression and find its value when $a = 5$ and $b = -3$.

$$2(a^2 + ab + b) + 3 - ab + 2b$$

(27) Simplify: (a) $12^4 \times 9^4(3)^4 \times 4t^8$

(b) $25 \times 5^4(2)^4 \times 10^3 \times t^4$

$$[(6)^3 \times 8^2 \times 27]$$

$$10^3 \times t^4$$

SECTION E (4 marks $\times$ 2 = 08 marks)

(28) Class VII students were asked to compare numbers. The numbers were $-\frac{14}{9}$ and -1.05 . How did the student compare as there are two methods to compare. Which one did he find easier?

Q. 1. Convert -1.05 into fraction

(a) $-\frac{21}{2}$

(b) $-\frac{21}{20}$

(c) $-\frac{21}{200}$

(d) $-\frac{21}{2000}$

Q. 2. Which is greater $-\frac{14}{9}$ or $-\frac{21}{20}$?

(a) $-\frac{14}{9}$

(b) $-\frac{21}{20}$

(c) Both are equal

(d) None of these

Q. 3. Out of $-\frac{14}{9}$, $-\frac{21}{20}$, $-\frac{7}{8}$ and $-\frac{21}{25}$ which is a nonterminating decimal?

(a) $-\frac{21}{20}$

(b) $-\frac{21}{25}$

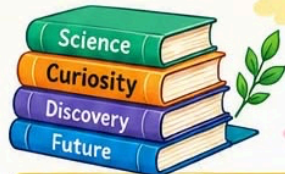
(c) $-\frac{14}{9}$

(d) $-\frac{7}{8}$

Q. 4. Simplify: $2 + \frac{1}{3} - \frac{1}{5}$

(29) The figure given below represents a rectangular lawn with

	a circular flower bed in the middle. Find: (i) the area of the whole land (ii) the area of the flower bed . Take $\pi = 3.14$ (iii) the area of the lawn excluding the area of the flower bed (iv) the circumference of the flower bed. Take $\pi = 3.14$     Happy  Holidays    	
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HOLIDAY HOMEWORK

SCIENCE – CLASS VIII

NCERT Curiosity | 10 Days | Aligned with NEP

Explore • Observe • Think • Create • Make a Difference



General Instructions:

- Complete the work neatly in a separate science notebook or scrapbook.
- Write answers in your own words and use labelled diagrams wherever required.
- Perform only simple, safe activities with the help of an adult.

- Do not use
- or class
- Record
- Use the

Day 1

Matter Around Us

1. Identify different states of matter in your surroundings (solid, liquid, gas).
2. Give two examples of each state and write their properties.
3. Prepare a simple flow chart showing changes of state (melting, freezing, evaporation, condensation).
4. Find out two daily life examples where the change of state is useful.

NEP 2020 Focus:

Observation, critical thinking and real-life connection.



Day 2

Nutrition in Plants

1. Draw a labelled diagram of a leaf and write the functions of its parts.
2. Collect two leaves of different types, observe their venation and write the difference.
3. Explain why green plants are called autotrophs.
4. Make a list of five plants found in your neighbourhood and mention their uses.

Value Education:

Appreciate and conserve plant diversity.



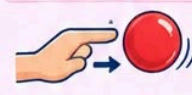
Day 3

Force and Pressure

1. Perform a simple activity to show the effect of force (e.g., pushing a ball or a box).
2. Give two examples of contact force and two examples of non-contact force.
3. Explain the effect of pressure on solids, liquids and gases with examples.
4. Draw and label a diagram to show atmospheric pressure.

NEP 2020 Focus:

Experiential learning and scientific reasoning.



Metals

1. Make a list of five metals and write their basic properties (lustre, etc.).
2. List five uses of metals in daily life.
3. Explain the difference between metals and non-metals.

Creative Task:

Design a poster on 'Reduce, Reuse, Recycle'.



Day 6

Reaching the Age of Adolescence

1. List the physical and emotional changes that occur during adolescence.
2. Explain the importance of personal hygiene.
3. Write two ways to manage stress and peer pressure.
4. Suggest healthy habits for a teenager.



NEP 2020 Focus:

Health, life skills and emotional well-being.

Day 7

Light, Shadows and Reflection

1. Observe your shadow at two different times of the day. Note the time and direction.
2. Draw a labelled diagram to show the formation of a shadow.
3. List two differences between a luminous and non-luminous object.
4. Explain why we see a rainbow. (Hint: refraction and dispersion).



Creative Task:

Make a small model/diagram of a periscope or kaleidoscope.

Day 8

Sound

1. Perform a simple activity to show how sound is produced (e.g., vibrating a rubber band).
2. Explain how sound travels from a source to our ears.
3. Compare the speed of sound in air, water and solids.
4. List four ways to reduce noise pollution.



Value Education:

Be considerate towards others and avoid noise pollution.

Water

1. Draw a diagram showing the water cycle.
2. List five uses of water in daily life.
3. Explain the importance of groundwater.
4. Prepare a poster on water conservation.



NEP 2020 Focus:

Sustainable development and environmental awareness.

Competency-Based Thinking Questions (Answer any five)

1. Why does a metal spoon generally feel colder than a wooden spoon?
2. A bulb does not glow in a circuit. State three possible reasons.
3. Why is rusting different from melting of ice?
4. A student travels 60 metres in 20 seconds. Calculate the speed.
5. Why should waste be segregated before disposal?
6. Why does a shadow change its size and position?
7. How can observing plants and animals help us understand our local environment?



Self-Reflection

Complete the following:

- The most interesting activity was _____.
- One new scientific concept I learned was _____.
- One question I still have is _____.
- I can apply science in my daily life by _____.



Assessment Rubric

Criteria	Assessment
Scientific understanding and accuracy	4
Activities, observation and data recording	3
Application and communication based answers	2
Diagrams, creativity and presentation	1
Environmental awareness and reflection	0
Neatness and independent work	0
Total	



Be Curious * Be Scientific * Be a Responsible Citizen

SST	*AUTUMN BREAK HOLIDAY* *HOMEWORK* *CLASS- VIIIB (SOCIAL* *SCIENCE)* *1. Read & write one mark question from (15 questions from each chapter):-* (I) World Geography: Some Glimpses. (II) India's long road to independence. *2. Map Work:-* *Activity 1:* On a blank political map of India, locate and label the following: (I) Mumbai (II) Kolkata (III) Champaran (IV) Delhi (V) Dandi (VI) Amritsar *Activity 2:*	
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	On a blank political map of the World, locate and label the following: (I) Suez Canal (II) Atlantic Ocean (III) Pacific Ocean (IV) Tropic of Cancer (V) Tropic of Capricorn (VI) Sahara Desert	
SKT	1. पठ् धातु के लट्, लृट्, लङ्, लोट् और विधिलिङ् लकारों में रूप लिखें व याद करें, 2. अस्मद् और युष्मद् शब्द के रूप लिखें व याद करें, 3. स्वर सन्धि के दस उदाहरण लिखें, 4. मञ्जुलमञ्जूषा सुंदरसुरभाषा पाठ के अभ्यास प्रश्नों को पूर्ण करे व याद करें, 5. संस्कृत में छात्र प्रतिज्ञा लिखें व याद करें । 6. निम्नलिखित सर्वनाम शब्दों के हिन्दी अर्थ लिखो । सः, तौ, ते, एषः, एतौ, एते, सा, ते, ताः, एषा, एते, एताः त्वम् युवाम् यूयम् अहम्, आवाम्, वयम् 7. कोई पांच सुभाषित लिखें व याद करें	
AI		
Work Education		
Drawing		

CLASS 9

SUBJECT		
ENGLISH	CLASS IX – ENGLISH (KAVERI)	

	A. Art-Integrated Project: Sikkim – A Journey Through Jammu and Ladakh • Prepare the project neatly in a project file. • Include a cover page, index, relevant pictures, original artwork, captions and bibliography. • Use your own words for written work. • Label all maps and illustrations clearly. • Check spelling, grammar and presentation before submission. Prepare a project file connecting English language skills with the art, geography and cultural heritage of Ladakh and Jammu 1. Introduction: Geographical location, capital, climate and major attractions. 2. Cultural Heritage: Festivals, traditional dances, music, handicrafts, cuisine and languages. 3. Natural Beauty: Kanchenjunga, biodiversity, forests, lakes and conservation efforts. 4. Descriptive Writing: Write 200–250 words 5. Art Integration: Create a labelled map, illustrated travel brochure, collage or poster inspired by Ladakh and Jammu ‘s traditional art and cultural motifs. 6. Environmental Message: Design a poster with a suitable slogan on sustainable tourism . 7. Comparative Reflection: Compare the cultural diversity with that of your own state in 120–150 words. 8. Conclusion: Explain how cultural understanding and environmental responsibility can contribute to national integration. 9. Bibliography: List the books and reliable websites used. Important: Use your own writing, cite your sources and label all borrowed photographs or illustrations. B. English Portfolio • Cover page and index. • Student profile and personal learning goals in English.	
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	• Best writing samples: one diary entry, one descriptive paragraph and one formal letter or email. • One original poem or short story. • Vocabulary journal: 20 new words with meanings and sentences. • Literature reflection: Write a short paragraph on the message of any two prescribed chapters or poems. • Self-assessment: Mention three strengths, two areas for improvement and a plan to improve your English. C. Writing Skills 1. Diary Entry: You visited a beautiful hill station during your holidays. Describe your experience, feelings and the lessons you learnt. (100–120 words) 2. Formal Email: Write an email to your school Eco Club coordinator suggesting activities to reduce plastic waste in school. D. Grammar and Vocabulary 3. Prepare a chart explaining Tenses, Modals, Determiners. 4. Complete 10 practice questions each on Tenses, Modals, Determiners and Reported Speech. E. Literature-Based Activities 5. Write a character sketch of the central character in Vitamin-M. 6. Explain the feelings expressed in I Cannot Remember My Mother. 7. Prepare five short-answer questions and two long-answer questions from any two prescribed literature lessons. F. Reading and Creative Enrichment • Read one age-appropriate English newspaper article or editorial and write its summary in 100 words.	
HINDI	कक्षा: 9वीं	

	विषय: हिंदी पाठ्यपुस्तक: गंगा सत्र: 2026-27 खंड-क: अनुच्छेद लेखन प्रश्न 1. निम्नलिखित में से किसी एक विषय पर लगभग 150-200 शब्दों में अनुच्छेद लिखिए। क) विद्यार्थी जीवन में अनुशासन का महत्त्व ख) पर्यावरण संरक्षण और हमारी जिम्मेदारी ग) सोशल मीडिया का विद्यार्थियों पर प्रभाव घ) स्वच्छ भारत, स्वस्थ भारत इ) समय का सदुपयोग खंड-ख: प्रार्थना-पत्र लेखन प्रश्न 2. निम्नलिखित में से किसी एक विषय पर प्रार्थना-पत्र लिखिए। बीमारी के कारण तीन दिन का अवकाश प्राप्त करने हेतु प्रधानाचार्य को प्रार्थना-पत्र लिखिए। विद्यालय के पुस्तकालय में हिंदी की उपयोगी पुस्तकें उपलब्ध कराने हेतु प्रधानाचार्य को प्रार्थना-पत्र लिखिए। खंड-ग: व्याकरण प्रश्न 3. निम्नलिखित शब्दों के विलोम शब्द लिखिए। उन्नति आशा स्वतंत्र प्राचीन प्रश्न 4. निम्नलिखित शब्दों के पर्यायवाची शब्द लिखिए। आकाश सूर्य पृथ्वी जल	
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	प्रश्न 5. निम्नलिखित वाक्यों में संज्ञा और सर्वनाम शब्द पहचानकर लिखिए। मोहन प्रतिदिन विद्यालय जाता है। वह अपनी पुस्तक पढ़ रहा है। सीता ने अपनी सहेली को पत्र लिखा। हम सब मिलकर देश की सेवा करेंगे। प्रश्न 6. निर्देशानुसार वाक्य परिवर्तन कीजिए। राम विद्यालय जाता है। (नकारात्मक वाक्य में बदलिए।) कितना सुंदर दृश्य है। (विधानवाचक वाक्य में बदलिए।) क्या तुमने अपना कार्य पूरा कर लिया? (विधानवाचक वाक्य में बदलिए।) वह परिश्रमी है और सफल होता है। (सरल वाक्य में बदलिए।) प्रश्न 7. निम्नलिखित मुहावरों के अर्थ लिखकर वाक्यों में प्रयोग कीजिए। आँखों का तारा दाँत खट्टे करना हाथ पर हाथ धरे बैठना नाक में दम करना खंड-घ : पाठ्यपुस्तक 'गंगा' प्रश्न 8. अपनी पाठ्यपुस्तक गंगा में पढ़ाए गए पाठों के आधार पर निम्नलिखित कार्य कीजिए। 1 अपने पसंदीदा पाठ का नाम लिखिए तथा उसके लेखक या कवि का नाम बताइए। 2 अपने पसंदीदा पाठ का सारांश लगभग 100 शब्दों में लिखिए। 3 पाठ से प्राप्त होने वाली शिक्षा को अपने शब्दों में लिखिए। 4 पाठ में आए पाँच कठिन शब्दों के अर्थ लिखिए। 5 पाठ से संबंधित दो प्रश्न स्वयं तैयार कीजिए और उनके उत्तर लिखिए। खंड-ड : रचनात्मक कार्य प्रश्न 9. निम्नलिखित में से कोई एक कार्य कीजिए।	
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	'जल संरक्षण' विषय पर एक आकर्षक पोस्टर बनाकर प्रभावशाली नारा लिखिए। 'पुस्तकें हमारी सच्ची मित्र हैं' विषय पर एक सुंदर स्लोगन चार्ट तैयार कीजिए। पोर्टफोलियो आप को अलग से भेजा जाएगा। Note:- सभी कार्य रूलिंग फाइल पेज में करना है सभी पेज स्टेपल करिए और पहले पेज को आकर्षक बनाया जाये। आवश्यक निर्देश 1 सभी कार्य में साफ-सुथरी लिखावट में कीजिए। 2 अनुच्छेद लेखन में विषय की स्पष्टता, विचारों की क्रमबद्धता तथा भाषा की शुद्धता का ध्यान रखिए। प्रार्थना-पत्र निर्धारित प्रारूप में लिखिए। 3 पाठ्यपुस्तक के प्रश्नों के उत्तर अपने शब्दों में लिखिए। 4 गृहकार्य विद्यालय खुलने पर विषय-शिक्षक को प्रस्तुत कीजिए।	
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MATHS

Note: All the work will be done in Holidays Homework Notebook.

1) If two lines intersect, prove that the vertically opposite angles are equal.

2) Bisectors of interior $\angle B$ and exterior $\angle ACD$ of a ΔABC intersect at the point T. Prove that $\angle BTC = \frac{1}{2} \angle BAC$.

3) A transversal intersects two parallel lines. Prove that the bisectors of any pair of corresponding angles so formed are parallel.

4) In the figure, OD is the bisector of $\angle AOC$, OE is the bisector of $\angle BOC$ and $OD \perp OE$. Show that the points A, O and B are collinear.

5. The angles of a triangle are in the ratio 5 : 3: 7. The triangle is

An acute-angled triangle

An obtuse-angled triangle

A right triangle

An isosceles triangle

6. Can a triangle have all angles less than 60° ? Give a reason for your answer.

7. Can a triangle have two obtuse angles? Give the reason for your answer.

8. How many triangles can be drawn having its angles as 45° , 64° and 72° ? Give the reason for your answer.

9. How many triangles can be drawn having its angles as 53° , 64° and 63° ? Give the reason for your answer.

10. Complete five math lab activities of Term-1 in Maths Lab notebook.

SCIENCE	.HW Class- 9th subject- science Q1) Make any one working model of given topics:- 1-food health and hygiene 2-transport and communication 3-Natural farming 4-Disaster management 5-Waste management 6-Resource management Q2)Revise all the chapters which are coming in monthly test ,held in october Q3) Learn and write atomic no.andelectronic configurations of elements from 1 to 20 Q4) Make portfolio Q5Take printout and solve these activity sheets:-	
SST	1. Notebook Work: • Complete all question-answers, NCERT exercises, and notes of: ○ <i>The State and Society</i> ○ <i>Elections / Electoral Politics</i>	

	2. Subject Enrichment Activities (Notebook / File): • Activity 1 (Elections): Draw the step-by-step process of elections in India (voter list to counting). Write 5 main rules of the Model Code of Conduct. • Activity 2 (State & Society): Make a chart showing: What is a State? List 5 key duties of a modern welfare state towards its citizens (education, health, security, etc.). 3. Art-Integrated Projects (A4 Sheet / Chart): • Project 1 (Early Humans & Civilizations): Draw or sketch the Great Bath and town planning of the Harappan Civilization. Add 4-5 bullet points explaining its drainage system. • Project 2 (Democracy): Make a creative poster using Warli or Madhubani folk art showing "Equality and Right to Vote". 4. Revise all the completed chapters.	
SKT	आपको दिए गए विषय पर प्रोजेक्ट फाइल बनाए।	
AI		
Work Education		
Drawing		

CLASS 10

SUBJECT		
ENGLISH	CLASS X – ENGLISH LANGUAGE AND LITERATURE A. Art-Integrated Project: Sikkim – A Journey Through Jammu and Ladakh	

	• Prepare the project neatly in a project file. • Include a cover page, index, relevant pictures, original artwork, captions and bibliography. • Use your own words for written work. • Label all maps and illustrations clearly. • Check spelling, grammar and presentation before submission. Prepare a project file connecting English language skills with the art, geography and cultural heritage of Ladakh and Jammu 1. Introduction: Geographical location, capital, climate and major attractions. 2. Cultural Heritage: Festivals, traditional dances, music, handicrafts, cuisine and languages. 3. Natural Beauty: Kanchenjunga, biodiversity, forests, lakes and conservation efforts. 4. Descriptive Writing: Write 200–250 words 5. Art Integration: Create a labelled map, illustrated travel brochure, collage or poster inspired by Ladakh and Jammu 's traditional art and cultural motifs. 6. Environmental Message: Design a poster with a suitable slogan on sustainable tourism . 7. Comparative Reflection: Compare the cultural diversity with that of your own state in 120–150 words. 8. Conclusion: Explain how cultural understanding and environmental responsibility can contribute to national integration. 9. Bibliography: List the books and reliable websites used. Important: Use your own writing, cite your sources and label all borrowed photographs or illustrations. https://docs.google.com/document/d/18Qf9ri2uzGurjG5msU9EKrWIhZ3MeFMM/edit?usp=drivesdk&oid=100124542597014678991&rtpof=true&sd=true	
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B. English Portfolio

- Cover page and index.
- Student profile and personal learning goals in English.
- Best writing samples: one diary entry, one descriptive paragraph and one formal letter or email.
- One original poem or short story.
- Vocabulary journal: 20 new words with meanings and sentences.
- Literature reflection: Write a short paragraph on the message of any two prescribed chapters or poems.
- Self-assessment: Mention three strengths, two areas for improvement and a plan to improve your English.

C. Writing Skills

10. Formal Letter: Write a letter to the editor of a newspaper expressing concern about the increasing use of plastic and suggesting practical solutions.
11. Analytical Paragraph: Study or create a simple table showing the waste collected in your school over five days. Write an analytical paragraph of 100–120 words describing the trend and suggesting improvements.

(150–180 words)

D. Grammar Practice

Revise the following topics and complete 5 practice questions on each:

12. Tenses
13. Modals
14. Determiners

	15. Reported Speech 16. Subject–Verb Agreement 17. Editing and Omission E. Literature-Based Activities <u>19.</u> Write the mind maps of following chapters and poems: · Chapter 4: <u>From the Diary of Anne Frank</u> (Poem: <i>The Ball Poem</i>) · (Poem: <i>Amanda</i>) · (Poem: <i>The Trees</i>) · Chapter 7: <i>Glimpses of India</i> (Poem: <i>Fog</i>) · Chapter 8: <u><i>Mijbil the Otter</i></u> (Poem: <i>The Tale of Custard the Dragon</i>) · Chapter 9: <u><i>Madam Rides the Bus</i></u> (Poem: <i>For Anne Gregory</i>) · Chapter 10: <u><i>The Sermon at Benares</i></u> · Chapter 11: <i>The Proposal</i> (Play/Drama)	
हिंदी	शरद कालीन अवकाश हेतु गृहकार्य कक्षा-दसवीं अ विषय -हिंदी 1- कोई भी 2 संदेश लिखें। 2-क्षितिज भाग-2 एवं कृतिका भाग-2 के पढ़ाए गए पाठों के अधूरे कार्य को पूरा करना। 3-वाक्य भेद, वाच्य, अलंकार, अनुच्छेद लेखन एवं पत्र लेखन का अभ्यास करना। 4-पढ़ाए गए पाठों के प्रश्नों को याद करना। 5- पोर्टफोलियो को प्रिंट करवा कर पूरा करें।	

	6- 2 औपचारिक तथा 2 अनौपचारिक ई मेल लिख कर लारं।	
MATHS	1. Solve CBSE sample paper session 2026-27 both basic and standard in maths class notebook. 2. . Complete your practical file. 3. Make formula chart notebook 4. Make a concept Map for circle and area related to circle chapter. 5. Solve 2025-26 cbse exam paper in your maths notebook.	
SCIENCE	Autumn Break Home Assignment शरद कालीन अवकाश गृहकार्य Session-2026-2027 CLASS : X ● Write two CCT based case studies including 4 questions of each . ● Make Portfolio *Write a report on Reproductive Health of female in India ● Solve the following case study based question Secondary Sexual Characters You have learnt in Chapter 9, that testes and ovaries are the reproductive-organs. They produce the gametes, that is, sperms and ova. In girls, breasts begin to develop at puberty-and boys begin to grow facial hair, that-is, mustaches and beard. As these-features help to distinguish the male form the female, they are called secondary	

sexual characters. Boys also develop hair on their chest. In Both, boys and girls, hair grows under the arms and in the region above the thighs or the pubic region. The changes which occur at adolescence are controlled by hormones.

Hormones are chemical substances. These are secretions from endocrine glands, or endocrine system. The male hormone or testosterone begins to be released by the testes at the onset of puberty. This causes changes in boys about which you have just learnt, for example, the growth of facial hair. Once puberty is reached in girls, ovaries begin to produce the female hormone or estrogen which makes the breasts develop. Milk secreting glands or mammary glands develop inside the breasts. The production of these hormones is under the control of another hormone secreted from endocrine gland called pituitary gland.

Role of Hormones in Initiating Reproductive Function

Endocrine glands release hormones into the bloodstream to reach a particular body part called target site. The target site responds to the hormone. There are many endocrine glands are ductless glands in the body. The testes and ovaries secrete sex hormones. You have just learnt that these hormones are responsible for the male and female secondary sexual characters. Further, the sex hormones are under the control of hormones from the pituitary gland. The pituitary secretes many hormones, one of which makes ova mature

	in the ovaries and sperms form in the testes. Que. 1) Sex hormones are under the control of hormones from the gland. (a) Adrenal. (b) Pituitary. (c) Thyroid. (d) Thymus Que. 2) Which among the following is the example of a major male sex hormone? (a) Testosterone. (b) Estrogen. (c) Prolactin. (d) Follicle stimulating hormone Que. 3) The endocrine gland is generally also known as ● Revise all the chapters completed till now. ● Solve 5 sample question papers provided by CBSE https://cbseacademic.nic.in/SQP_CLASSX ● Draw all the diagrams of chapters-Life processes,how do organisms Reproduce,control and coordination and ray diagrams of chapter light and human eye and colourful world	
SST	1. Sample Paper Practice: ● Solve the complete CBSE Class 10 Social Science Sample Question Paper in your assignment notebook. 2. Map Skill File Practice: Complete your Map practice file if	

	not completed yet and submit it after break. 3. Subject Enrichment Activities (Notebook / File): ● Activity 1 (Economics - Consumer Rights): Paste 3 consumer product logos/labels (ISI, Agmark, FSSAI) and write the 3-tier consumer court system (District, State, National). 4. Art-Integrated Projects (A4 Sheet / Chart): ● Project 1 (Sectors of the Indian Economy): Make an illustrated infographic/collage showing the 3 sectors (Primary, Secondary, Tertiary) with hand-drawn pictures and examples. ● Project 2 (Print Culture): Design a 1-page front cover of a historical freedom-era newspaper (like <i>Kesari</i> or <i>Young India</i>) with a headline, a short article, and a hand-drawn political cartoon. 5. Complete chapters 'Money and Credit' and 'Globalisation and Indian Economy' in your notebook. 6. Complete your project file and submit it after break. 7. Revise all the chapters for pre- board examination.									
SKT										
AI	<table><tr><td>1</td><td>AI Project Cycle</td><td>AI Project Cycle Flowchart</td><td>Create a flowchart showing the five stages of the AI Project Cycle: Problem Scoping, Data Acquisition, Data Exploration, Modelling and Evaluation.</td></tr><tr><td>2</td><td>AI Project Cycle</td><td>Problem Scoping</td><td>Identify a real-life school problem and analyse it using Who, What, Where and Why.</td></tr></table>	1	AI Project Cycle	AI Project Cycle Flowchart	Create a flowchart showing the five stages of the AI Project Cycle: Problem Scoping, Data Acquisition, Data Exploration, Modelling and Evaluation.	2	AI Project Cycle	Problem Scoping	Identify a real-life school problem and analyse it using Who, What, Where and Why.	
1	AI Project Cycle	AI Project Cycle Flowchart	Create a flowchart showing the five stages of the AI Project Cycle: Problem Scoping, Data Acquisition, Data Exploration, Modelling and Evaluation.							
2	AI Project Cycle	Problem Scoping	Identify a real-life school problem and analyse it using Who, What, Where and Why.							

		Using 4Ws	
3	Computer Vision	Exploring Computer Vision	Identify real-life applications of computer vision, such as face recognition, object detection and traffic monitoring.
4	Natural Language Processing	NLP in Everyday Life	Prepare a poster illustrating applications of NLP, including chatbots, translation and voice assistants.
5	Evaluation	Confusion Matrix Activity	Prepare a confusion matrix for a sample classification problem and identify TP, TN, FP and FN.
6	AI Ethics	Responsible AI Poster	Create a poster highlighting fairness, privacy, transparency and responsible use of AI.
7	AI Project Cycle	Mini AI Project Presentation	Identify a local problem, propose an AI-based solution and present the project cycle.

All the students are instructed to this Autumn break holiday home work and submit it on 26/10/2026

Grades will be provided for same.

Work Education		
Drawing		

CLASS 11

SUBJECT	SECTION	WORK	
HINDI	AB	आपको दिए गए विषय(रचनाकार) पर प्रोजेक्ट फाइल बनाए।	

**PM SHRI KENDRIYA
VIDYALAYA
PITAMPURA SHIFT-2
CLASS XI (MATHEMATICS)
Autumn Break Home Work**

Day:1

CHAPTER – 1 [SETS]

1. Write the following as intervals:

(i) (ii)

2. Write the following in set builder form :

(i) (ii) (iii)

3. If A , B , C and D.

Find (i) (ii) (iii) (iv)

4. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ and $B = \{2, 4, 6, 8, 10\}$. Verify that

(a) $(AB)' = A' \cap B'$ (b) $(AB)' = A' \cup B'$.

5. Let A and B be sets. If $A \cap X = B \cap X$ and $A \cup X = B \cup X$ for some set X, show that $A = B$.

6. Using Venn diagram, show that:

(a) $(AB)' = A' \cap B'$ (b) $(AB)' = A' \cup B'$.

Day-2

**CHAPTER – 2 [RELATIONS
AND FUNCTIONS]**

7. Find the domain and range of the function:

(i). (ii) (iii)

8. The function f is defined by, draw the graph of Also find

9. Let $A = \{1, 2, 3\}$, $B = \{3, 4\}$ and $C = \{4, 5, 6\}$.

Find (i) $A \times (B \cap C)$ (ii) $(A \times B) \cap (A \times C)$

		) (A X C) . 10. Is a function ? If this is described by the formula, then what values should be assigned to and ? 11. If prove that 12. Draw the graph of the function is defined by (i) (ii) (iii) (iv) Day-3 CHAPTER – 3 [TRIGONOMETRIC FUNCTIONS] 13. Find the degree measure corresponding to given radian measures : (i) (ii) (iii) 6 14. Show that: 15. Prove the following: (i) (iii) (iv) 16. Prove that: $\sin \sin \sin \sin$ 17. Prove that: 18. If, find the value of . Day-4 CHAPTER – 4 [COMPLEX NUMBERS AND QUADRATIC EQUATIONS] 19. Express in the form of : 20. If 21. If 22. Find the real numbers and if is the conjugate of $624i$ 23. Evaluate 24. If , where is real, prove that	
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and

Day-5
CHAPTER – 5
[LINEAR INEQUALITIES]

25. Solve :

(i)

(ii)

(iii)

(iv)

(v)

26. A solution of 8% boric acid is to be diluted by adding a 2% boric acid solution to it. The resulting mixture is to be more than 4% but less than 6% boric acid. If we have 640 litres of the 8% solution, how many litres of the 2% solution will have to be added?

27. A manufacturer has 600 litres of a 12% solution of acid. How many litres of a 30% acid solution must be added to it so that acid content in the resulting mixture will be more than 15% but less than 18% ?

28. How many litres of water will have to be added to 1125 litres of the 45% solution

of acid so that the resulting mixture will contain more than

		25% but less than 30% acid content? 29. Find the multiplicative inverse of 30. Express the following expression in the form of $a + ib$: Day-6 CHAPTER – 6 [PERMUTATIONS AND COMBINATIONS] 31. How many 6-digit number can be formed from the digits 0,1,3,5,7,9 which are divisible by 10 and no digit is repeated ? 32. It is required to seat 5 men and 4 women in a row so that the women occupy the even places. How many such arrangements are possible ? 33. A group consists of 4 girls and 7 boys. In how many ways can a team of 5 members be selected if the team has (i) no girl ? (ii) at least one boy and one girl ? (iii) at least 3 girls ? 34. In an examination, a question paper consists of 12 questions divided into two parts i.e., Part I and Part II, containing 5 and 7 questions, respectively. A student is required to attempt 8 questions in all, selecting at least 3 from each part. In how many ways can a student	
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		select the questions ? 35. A sports team of 11 students is to be constituted, choosing at least 5 from Class XI and at least 5 from Class XII. If there are 20 students in each of these classes, in how many ways can the team be constituted? 36. In how many ways can the letters of the word 'PERMUTATIONS' be arranged if the (i) words start with P and end with S. (ii) vowels are all together, (iii) there are always 4 letters between P and S. Day-7 CHAPTER – 7 [BINOMIAL THEOREM] 37. Find 4th term of the expansion . 38. Expand . 39. Using binomial theorem, evaluate . 40. Using binomial theorem, evaluate . 41. Using binomial theorem, show that is divisible by 64, where n is positive integer. 42. Find . Hence, evaluate .	
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Day-8
CHAPTER – 8 [SEQUENCES
AND SERIES]

43. If the 4th, 10th and 16th terms of a G.P. are x , y and z , respectively. Prove that x , y , z are in G.P.

44. Find the 12th term of a G.P. whose 8th term is 192 and the common ratio is 2.

45. Find the sum to n terms of the sequence, 0.8, 0.88, 0.888, 0.8888... .

46. Let S be the sum, P the product and R the sum of reciprocals of n terms in a G.P. Prove that .

47. If the first and the n th term of a G.P. are a and b , respectively, and if P is the product of n terms, prove that .

48. The sum of first three terms of a G.P. is 16 and the sum of the next three terms is

128. Determine the first term, the common ratio and the sum to n terms of the G.P

Day-9
CHAPTER – 9 [STRAIGHT
LINES]

49. Find the equation of the set of points which are equidistant from the points (1, 2, 3) and (3,

		2, -1). 50. Find the equation of a line perpendicular to the line $x-2y+3=0$ and passing through the point (1,-2) 51. Find the distance of the line $4x + 7y + 5 = 0$ from the point (1,2) measured parallel to the line $2x - y + 5 = 0$. 52. The line through the points (h, 3) and (4, 1) intersects the line $7x-9y-19=0$ at right angle. Find the value of h. 53. Find the equation of a line that cuts off equal intercepts on the coordinate axes and passes through the point (2, 3). 54. Find equation of the line passing through the point (2, 2) and cutting off intercepts on the axes whose sum is 9	
BST	11 A	NCERT QUESTIONS ASSIGNED IN CLASS FROM CHAPTERS BUSINESS SERVICES AND FORMS OF BUSINESS ORGANISATION	
ACCOUNTANCY	11 A	TOTAL 40 Questions assigned in class from chapter 1. JOURNAL 2. LEDGER 3. SUBSIDIARY BOOK PART 1 AND 2 4. BANK RECONCILIATION STATEMENT 5. DEPRECIATION	
ECONOMICS	A & B		

Q1. Student Performance Analysis

A teacher stores the marks of five students in a list:

```
marks = [78, 45, 89, 32, 66]
```

Write a Python program to:

- Display the highest and lowest marks.
- Calculate the average marks.
- Count the students who scored 60 or above.

Q2. Canteen Inventory

A school canteen maintains the list:

```
items = ["Pen", "Notebook",  
"Pencil", "Eraser"]
```

Write statements to:

- Add "Scale" to the list.
- Remove "Pencil" from the list.
- Display the final list and the total number of items.

Section B: Dictionary – Real-Life Applications**Q3. Student Report**

A dictionary stores student names and marks:

```
student = {"Aman": 85, "Riya": 92,  
"Karan": 67, "Neha": 78}
```

Write a program to:

- Display the name and marks of each student.
- Find the student with the highest marks.
- Count students who scored 80 or above.

		Q4. Shopping Bill A shop maintains the following dictionary: <pre>prices = {"Pen": 10, "Book": 80, "Bag": 650, "Bottle": 150}</pre> Write a program to display products costing more than ₹100 and calculate the total price of all products. Section C: If Statement – Decision-Making Q5. Electricity Bill A household's electricity consumption is entered by the user. Calculate the bill using these rates: • First 100 units: ₹2 per unit • Next 100 units: ₹3 per unit • Above 200 units: ₹5 per unit Write a Python program using conditional statements to calculate the bill progressively. Q6. Scholarship Eligibility A school awards a scholarship to students who score at least 85% and have attendance of at least 90%. Write a program that accepts marks percentage and attendance percentage, then displays whether the student is eligible for the scholarship. Q7. Online Shopping Discount An online store offers: • 20% discount for purchases of ₹5,000 or more. • 10% discount for purchases of ₹2,000 or more but below ₹5,000. • No discount for purchases below ₹2,000.	
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		Write a program to calculate the discount and final payable amount. Q8. Classroom Survey The number of books read by six students in a month is stored in a list: <pre>books = [2, 5, 1, 4, 6, 3]</pre> Using a <code>for</code> loop, calculate: • Total books read. • Average number of books read. • Number of students who read at least four books. Q9. Multiplication Table Challenge Write a program that accepts a number from the user and displays its multiplication table from 1 to 10. Also display only those products that are even. Q10. Pattern Recognition Write a Python program using nested <code>for</code> loops to display: <pre>1 12 123 1234 12345</pre> Explain how the inner and outer loops work. Q11. Digital Piggy Bank A student deposits different amounts into a piggy bank. Write a program using a <code>while</code> loop that accepts deposit amounts until the user enters 0. Finally, display the total savings. Q12. Number Analysis Write a program using a <code>while</code> loop to accept an integer and calculate:	
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		• The sum of its digits. • The number of digits. • The reverse of the number. Q13. Password Attempts A computer program stores a predefined password. Allow the user a maximum of three attempts to enter the correct password using a <code>while</code> loop. Display an appropriate message when the password is correct or all attempts are exhausted. Section F: Integrated Competency-Based Questions Q14. School Library Management A school library stores the number of available copies of books in a dictionary: <pre>library = {"Python": 5, "AI": 3, "Cyber Safety": 7, "Robotics": 2}</pre> Write a program to: • Display all books with fewer than four copies. • Accept a book name and update its available copies. • Display the updated dictionary. Q15. Mini Quiz Application Develop a Python program that asks five multiple-choice questions. Use conditional statements to check answers, a loop to conduct the quiz, and a variable to maintain the score. Display the final score and percentage. Section G: Reflection and Application 1. Explain how lists and dictionaries help in managing school data. 2. Give one real-life situation where a <code>for</code> loop is more suitable than a	
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		while loop. 3. Explain why a condition is necessary to prevent an infinite while loop. 4. Identify two real-life situations where conditional statements are used in decision-making.	
HISTORY		HOLIDAY HOMEWORK – CLASS XI HISTORY Dear Students, Complete the following holiday homework in your History notebook or on A4-size sheets. The assignment includes research on human evolution and the major civilisations and empires of world history. 1. History of Human Evolution Write about the history of human evolution, including the major stages of evolution, important developments in human life, tool-making, the discovery of fire and the development of early societies. Paste relevant pictures. 2. Map Work and Study of Important Empires Prepare separate maps for each of the following empires and civilisations. Along with each map, write at least one page describing the history of the empire, its major contributions and important rulers.	

		1. Mesopotamian Civilisation – Describe its origin, major cities, writing system, contributions to agriculture and architecture, and important rulers such as Hammurabi. 2. Roman Empire – Explain its expansion, administration, contributions to law, architecture and trade, and important rulers such as Augustus and Constantine. 3. Islamic Empires – Describe the expansion of early Islamic rule, contributions to science, mathematics, medicine, literature and architecture, and important rulers such as Caliph Harun al-Rashid. 4. Mongol Empire – Explain the rise and expansion of the Mongol Empire, its military organisation, trade networks and cultural exchanges, and the role of Genghis Khan and Kublai Khan. 5. Ottoman Empire – Describe its origin, expansion, administration, architectural achievements and contribution to trade and culture. Include important rulers such as Osman I, Mehmed II and Suleiman the Magnificent. 3. General Instructions • Use a separate map for each empire or civilisation. • Mark important cities, rivers, regions and territories clearly. • Write at least one full page on each empire or civilisation, covering its history, contributions and important rulers. • Paste relevant pictures of rulers, monuments, buildings, coins or historical sources. • Use proper headings, subheadings and coloured labels. • Mention the sources of information used. • Complete the assignment neatly and submit it after the holidays.	
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		Note: All students must complete the written work and map work. The assignment should reflect your own understanding of the topics and the historical importance of each empire.	
GEOG		*AUTUMN BREAK HOLIDAY* *HOMEWORK* *CLASS- XIB (GEOGRAPHY)* 1. Revise all chapters included in the Half-Yearly Examination. 2. Complete your practical work (1-3 chapters) 3. Solve the sample question paper of Half yearly in your notebook.	
SOCIOLOGY			
PHE			
En	11& 12	PM SHRI KENDRIYA VIDYALAYA PITAMPURA SHIFT II AUTUMN BREAK HOLIDAYS HOMEWORK SUBJECT: - ENGLISH CLASS: - XI ANSWER THE FOLLOWING QUESTIONS IN 50-60 WORDS 1. How has Khushwant Singh employed several poetic words to describe the physical and spiritual beauty of his grandmother in the chapter? 2. In what way is the photograph both a source of joy and grief? (A PHOTOGRAPH) 3. How did the narrator and his wife prepare for their circumnavigation? 4. The waves were enormous on January 2nd. What efforts did the narrator make to shield himself and	

		his family from the enormous waves? 5. What life lessons can we learn from the narrator's leadership and the family's teamwork during the storm? 6. Why was King Tut's demise a big event, even by royal standards? 7. What insight do the artefacts found in king Tut's tomb provide into ancient Egyptian funerary practices and beliefs? 8. "King Tut is one of the first mummies to be scanned — in death, as in life...". Comment 9. Why is the laburnum tree described as "silent" at the beginning of the poem? 10. What is the significance of the line "Then sleek as a lizard, and alert, and abrupt"? 11. Analyse the theme of nature's cycles in the poem (THE VOICE OF THE RAIN) 12. Explain the significance of the title "The Address". 13. How does the author use the house to reflect the theme of dislocation? 14. Do you think Mrs. Fitzgerald's way of dealing with the situation was justified? Why or why not? 15. What was the change that came over the Pearson family in the end? Q1. Fill in the blanks with the correct tense of the verb in brackets a) She usually _____ (go) to the gym in the evening. b) We _____ (watch) a movie when the power went out. c) He _____ (not/finish) his homework yet. d) By the time you arrive, we _____	
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		(leave). Q2. Fill in the blanks with appropriate clauses: a) I don't understand _____ she is always late. b) This is the man _____ helped me during the accident. c) He spoke so softly _____ we could hardly hear him. d) Can you explain to me _____ the project was delayed? Q.3. Fill in the blanks with an appropriate clause: 1. I don't know _____. 2. This is the same phone _____. 3. He explained everything _____. 4. She sings so well _____. 5. The girl _____ lost her bag was crying Q.4 You are running a Travel and Tourism Agency. Draft an advertisement to be published about it in a local daily giving all relevant details. Q.5 On the occasion of World Mental Health Day, your school, Shiksha Mandir, Agra, is hosting a wellness seminar. Design a poster that spreads awareness about mental health, the importance of seeking help, and ways to maintain emotional well-being. Q.6 You are Meera/Manav, a student of Class XI. Your school is conducting a youth	
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		festival where students will express their views on values and aspirations. You have been selected to deliver a speech on the topic “Is Success Measured Only by Wealth and Status?” Write the speech in 120–150 words.	
Fine Arts			

CLASS 12

SUBJECT	SECTION	WORK	
ENGLISH	A & B	PM SHRI KVS PITAMPURA – 2ND SHIFT ENGLISH HOLIDAYS HOMEWORK FOR AUTUMN BREAK Class XII Subject: English Core General Instructions ● Write answers in your own words. Support literature answers with relevant details from the text. ● Follow the prescribed word limits and formats for writing tasks. ● Revise the chapters and poems included in the questions before attempting the homework. SECTION A – LITERATURE: SHORT-ANSWER QUESTIONS (Answer each question in about 40–50 words.) 1. Why was Franz reluctant to go to school on the day of the last lesson? (The Last Lesson) 2. What does the peddler’s comparison of the world to a rattrap reveal about his outlook on life? (The Rattrap) 3. Why did Gandhi agree to a 25 per cent refund to the sharecroppers? (Indigo)	

		4. What does the poet mean by the phrase “the merry children spilling out of their homes”? (My Mother at Sixty-Six) 5. How according to Neruda can keeping quiet change our attitude to life? 6. What made Derry believe that Mr Lamb was different from other adults? (On the Face of It) SECTION B – LITERATURE: LONG-ANSWER QUESTIONS (Answer each question in about 120–150 words.) 7. “The Last Lesson” shows that language is closely connected with identity, dignity and freedom. Discuss with reference to the story. 8. How does “The Rattrap” explore the possibility of human goodness and transformation? Discuss the roles of Edla and the peddler. 9. “Indigo” is not merely an account of the exploitation of peasants but also a lesson in courage and self-reliance. Explain. 10. Explain the emotional concerns expressed in “My Mother at Sixty-Six”. How does the poet use imagery to communicate these concerns? 11. In “On the Face of It,” how does Mr Lamb help Derry challenge his negative perception of himself and the world? SECTION C – WRITING SKILLS 12. Notice Writing (50 words) – You are the Cultural Secretary of your school. Draft a notice informing students of Classes XI and XII about an inter-house literary fest featuring poetry recitation, debate and creative writing. Include the date, venue, eligibility and registration details. 13. Invitation and Reply – Your school is organising its Annual Day celebration.	
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		Draft a formal invitation to the Chief Guest. Then write a suitable formal reply accepting the invitation. 14. Letter to the Editor (120–150 words) – Write a letter to the editor of a national daily expressing concern about the increasing use of single-use plastic and suggesting practical steps that students, residents and local authorities can take to reduce it. 15. Job Application with Bio-data (120–150 words) – You saw an advertisement for the post of a part-time English content writer at a reputed educational publishing house. Write an application to the HR Manager, highlighting your relevant skills and experience, and attach a concise bio-data. 16. Article Writing (120–150 words) – Write an article for your school magazine on “Mental Well-being and Academic Pressure among Teenagers.” Discuss common challenges and suggest healthy ways to manage stress. SECTION D – INTEGRATED LITERATURE RESPONSE 17. Answer in about 150–180 words: Several texts in the Class XII English Core syllabus explore dignity, empathy, freedom or the desire to belong. Choose any two prescribed texts and compare how the writers present one of these ideas. Use specific examples from both texts. SECTION E – CREATIVE AND REFLECTIVE TASK 18. Choose any one poem prescribed in Flamingo and create a one-page literary response. Include the central idea, two poetic devices with examples, and a short personal reflection on the poem’s relevance today. Add a simple, relevant illustration if you wish.	
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HINDI	A B	आपको दिए गए विषय(रचनाकार) पर प्रोजेक्ट फाइल बनाए।	
MATHS	12A	PM SHRI KENDRIYA VIDYALAYA PITAMPURA (SHIFT-I1) HOLIDAY HOME WORK (AUTUMN BREAK) CLASS – XII SUBJECT – MATHEMATICS 1. Let A and B be two finite sets with $n(A) = m$ and $n(B) = n$ with $m = n$ then find the number of bijective functions from A to B. 2. Let $A = \{1,2,3\}$. Find the number of equivalence relations containing $(1,2)$. 3. If $A = \{1,2,3\}$, $B = \{4,6,9\}$ and R is a relation from A to B defined by 'x is smaller than y'. Write the range of R. 4. The relation $R = \{(1,1), (2,2), (3,3)\}$ on $\{1,2,3\}$ is equivalence relation or not. 5. Let $A = \mathbb{R} - \{3\}$ and $B = \mathbb{R} - \{1\}$. Consider the function $f : A \rightarrow B$ defined by $f(x) = \frac{x-3}{x+3}$ Is f one-one and onto? Justify your answer CHAPTER 2 1). Find the principal value of .	

		2) Find the principal value of . 3) Find the principal value of . 4). Find the value of . 5). Find the value of . CHAPTER 3 1) If O, find . 2) Find the matrix P satisfying the matrix equation . Also find a matrix Q such that $P + Q = O$, where O is a zero matrix 3) If $A =$. Prove that 4) If $A =$, find x and y such that $A^2 + xI = yA$. Also find the value of $(x - y)$. 5) For what value of x: $[\] = O$. Use the value of x to find A^2, if $A =$. 6) If $A =$, show that $A^2 - 5A - 14I = O$. CHAPTER 4 1. Using matrix method, solve: $x + y + z = 6$; $y + 3z = 11$; $x - 2y + z = 0$ 2. Using matrix method, solve: $3x - 2y + 3z = 8$; $2x + y - z$	
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		$= 1; 4x - 3y + 2z = 4$ 3. Solve the system using matrices: ; ; 4. If $A =$, find A^{-1} and use it to solve the system of equations: $2x - 3y + 5z = 11, 3x + 2y - 4z = -5, x + y - 2z = -3$ 5. Using matrices, solve the following system of equations: (i) $x + 2y - 3z = -4$ $2x + 3y + 2z = 2$ $3x - 3y - 4z = 11$ (ii) $4x + 3y + 2z = 60$ $x + 2y + 3z = 45$ $6x + 2y + 3z = 70$ 6. Find the product AB, where $A =$ and use it to solve the equations: $x - y + z = 4, x - 2y - 2z = 9, 2x + y + 3z = 1$ CHAPTER 5 1. Find the value of k for which $f(x) =$ is continuous at $x = 0$. 2. If $f(x) =$, continuous at $x =$	
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		1, find the values of a and b. 3. If $f(x)$ is continuous at $x =$, find a, b. 4. If $y =$ 5. 6 If $x =$ find at . 7. If CHAPTER 6 1. Find the intervals in which function $f(x) = 2x^3 - 15x^2 + 36x + 1$ is strictly increasing or strictly decreasing. 2. Find the intervals in which function $f(x) = \sin x - \cos x$, is strictly increasing or strictly decreasing. 3. Find the absolute maximum and minimum values of a function f given by $f(x) = 2x^3 - 15x^2 + 36x + 1$ on the interval $[1, 5]$. 4. A man whose height is 2 m walks at a uniform speed of 6 m/minutes away from a lamp post 5 m high. Find the rate at which the length of his shadow increases. 5. Water is leaking from a conical funnel at the rate of $5 \text{ cm}^2/\text{s}$. If the radius of the base of the funnel is 5 cm and the altitude is 10 cm, find the rate	
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at which the water level is dropping when it is 2.5 cm from the top.

CHAPTER 7

1. 1. 2.
3. 4.
5. 6. 7. 8.
9. 10. 11.

12. If and if find a and b.

13.

14.

CHAPTER 8

1. Find the area enclosed by the circle = 2 .
2. Find the area of the region bounded by the curve $y = x^2$ and the line $y = 16$.
3. Find the area of the region bounded by the curve $y =$ and x-axis.
4. Find Area of the region bounded by $y = 4x$, y-axis, and the line $y = 3$.
5. Find The area of the region bounded by the curve $x = 2y + 3$ and the y lines,
 $y = 1$ and $y = -1$
6. Sketch the region of the ellipse and find its area,

		using integration. 7. Sketch the graph of $y =$ and evaluate the area under the curve $y =$ above x-axis and between $x = -6$ to $x = 0$. using integration. 8. Find the area of the region bounded by $x^2 = 4y$, $y = 2$, $y = 4$ and the y-axis in the first quadrant using integration 9. Find the Area of Triangle having vertices A (2 , 3) , B (4 , 7) C (6 , 2) 10. Find the Area of Triangle bounded by lines :- $3x + 3 - 2y = 0$, $x + 2y - 7 = 0$, $x - 2y + 1 = 0$ CHAPTER9 1. Find the particular solution of the differential equation ; given that $y=1$ and $x=0$ 2. Find the particular solution of the differential equation given that $y=0$ when $x=0$ 3. Solve the following differential equation : 4. Solve the following differential equation : 5. Find the solution of the differential equation 6. Solve the following differential equation:	
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		7. Solve the differential equation: 8. Find the particular solution of the differential equation given that $y = 0$ and $x = \pi / 2$ 9. Find the general solution of the differential equation 10.. solve the differential equation CHAPTER 10 . Write a vector of magnitude 15 units in the direction of vector $-2\mathbf{i} + 2\mathbf{j}$. 2. Find $\mathbf{r}$ if $\mathbf{r} = 3\mathbf{i} - \mathbf{j} + 2\mathbf{k}$ and $\mathbf{r} = 2\mathbf{i} + 3\mathbf{j} + 3\mathbf{k}$. 3. If $\mathbf{a}$ and $\mathbf{b}$ are two vectors such that $\mathbf{a} = \mathbf{b}$, then what is the angle between $\mathbf{a}$ and $\mathbf{b}$ 4. If $\mathbf{a} = 3$, $\mathbf{b} = 5$ and $\mathbf{a} \cdot \mathbf{b} = 9$. Find $\mathbf{a} + \mathbf{b}$ 5. The dot products of a vector with the vectors $-3\mathbf{i} - 2\mathbf{j} + 4\mathbf{k}$ are 0, 5 and 8 respectively. Find the vector. 6. If $\mathbf{a} = 2\mathbf{i} + 2\mathbf{j} + 3\mathbf{k}$, $\mathbf{b} = -\mathbf{i} + 2\mathbf{j}$ and $\mathbf{c} = 3\mathbf{i} + \lambda\mathbf{k}$ are such that $\mathbf{a} + \lambda\mathbf{c}$ is perpendicular to $\mathbf{b}$, find the value of λ. 7. If $\mathbf{a} + \mathbf{b} = \mathbf{a} - \mathbf{b}$, then find the angle between $\mathbf{a}$ and $\mathbf{b}$.	
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		8. Let $\vec{a}, \vec{b}, \vec{c}$ be three vectors such that each of them being perpendicular to the sum of the other two, find $\vec{a} \cdot \vec{b} + \vec{b} \cdot \vec{c} + \vec{c} \cdot \vec{a}$. 9. If with reference to the right handed system of mutually perpendicular unit vectors $\vec{i}, \vec{j}, \vec{k}$, $\vec{a} = 3\vec{i} - \vec{j} + 2\vec{k}$, $\vec{b} = 2\vec{i} + 3\vec{j} - \vec{k}$ then express $\vec{a} \times \vec{b}$ in the form of $\lambda_1\vec{i} + \lambda_2\vec{j} + \lambda_3\vec{k}$, where λ_1 is parallel to $\vec{a}$ and λ_2 is perpendicular to $\vec{a}$. 10. If $\vec{a} \cdot \vec{b} = 0$ then find a vector perpendicular to both $\vec{a}$ and $\vec{b}$.	
ACCOUNTANCY	12 A	Part A (60 marks)of Sample paper question of 2026-27 and 2025-26. Part A of CBSE PREVIOUS YEAR QUESTION PAPER(60 marks) OF 2025-26 AND 2024-25	
BUSINESS STUDIES	12 A	Project report on following topics as per group assigned 1. Principles Of management 2. Business environment 3. marketing management 4. Stock exchange	
ECONOMICS	A & B		
IP		Prepare practical file as per cbse guideline Prepare project file in group Solve cbse sample paper last 2 years	
HISTORY		HOLIDAY HOMEWORK Class XII – History	

		Topic: Important Dynasties of Ancient, Medieval and Modern Indian History Instructions: 1. Identify and paste pictures of all the important dynasties covered in the Class XII History syllabus. 2. Write at least one page about each dynasty in your History notebook or on A4-size sheets. 3. Include the following information about each dynasty: * Founder and important rulers * Period of rule * Major political achievements and territorial expansion * Administrative system * Art, architecture and cultural contributions * Important historical monuments, inscriptions or sources * Reasons for the rise and decline of the dynasty 1. Paste relevant pictures of rulers, monuments, coins, inscriptions or other historical sources. Suggested List of Important Dynasties and Ruling Houses A. Ancient India 1. Haryanka Dynasty 2. Nanda Dynasty 3. Maurya Dynasty 4. Shunga Dynasty 5. Kushana Dynasty 6. Satavahana Dynasty 7. Gupta Dynasty 8. Vardhana Dynasty (Harsha) B. Medieval India 1. Chola Dynasty 2. Delhi Sultanate Dynasties: • Mamluk (Slave) Dynasty • Khalji Dynasty • Tughlaq Dynasty • Sayyid Dynasty • Lodi Dynasty	
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GEOG		*AUTUMN BREAK HOLIDAY* *HOMEWORK* *CLASS- XIIB (GEOGRAPHY)* 1. Revise all the chapters taught in class so far. 2. Complete your practical work. 3. Solve the sample paper 2026-27 in your notebook. 4. Take printouts of the maps from the prescribed map book, practise them, and paste them neatly in your notebook.	
SOCIOLOGY			
PHE			
Fine Arts			