PM SHRI KENDRIYA VIDYALAYA COIMBATORE

PM SHRI KENDRIYA VIDYALAYA COIMBATORE SUMMER VACATION HOMEWORK – 2025-26

INDEX

CLASS III

Homework is a **Multi-Disciplinary Project** on the topic "**My Dream Garden**"**integrating all the subjects**.The homework should be submitted on 21st June 2025 without fail.

SUBJECT	HOMEWORK
ENGLISH	Write a short paragraph or story about your garden. Name the plants and describe them using adjectives. Vocabulary words: seed, soil, water, sunlight, grow, garden, plant, etc.
HINDI	प्रश्न १.अपने बगीचे के बारे में एक छोटा अनुच्छेद या कहानी लिखें। प्रश्न २.पौधों के नाम बताइए तथा विशेषणों का प्रयोग करके उनका वर्णन कीजिए। प्रश्न ३. शब्दावली शब्द: बीज, मिट्टी, पानी, सूरज की रोशनी, बढ़ना, बगीचा, पौधा, आदिकाप्रयोगकरकेवाक्यबनाए।
THE WORLD AROUND US	Learn about different types of plants (flowers, vegetables, herbs). Understand what plants need to grow – sunlight, water, soil, air. Explore insects and birds that visit gardens.
MATHS	Measure the space for the garden using standard or non-standard units (hands, feet, ruler). Count the number of plants. Create simple bar graphs showing the number of different plants.

CLASS IV

Homework is a **Multi-Disciplinary Project** on the topic "**My School, My Pride**" **integrating all the subjects**. The homework should be submitted on 21st June 2025 without fail.

SUBJECT	HOMEWORK
ENGLISH	Write 5–10 sentences on"Why I lovemyschool?" Create an acrostic poem using the word"school." Make a Thankyou card or short note for your teachers.
HINDI	बहुविषयक परियोजना ''मैं अपने स्कूल से क्‍ों प्यों ‍ा रकरता/करती हूँ''पर 5-10 वाक्‍ F लखें। ''विद्यालय''शब्द का उपयोग करके एक ककF वता बनाएँ । अपने Fशक्षकों को ‍ ों लए एक धन्यवाद का ड यास ‍ों‍क्षण नोट बनाएँ।
THE WORLD AROUND US	Learn and write about different plants and trees found in our school garden. Learn and write about cleanliness and hygiene in school (dustbins, hand washing, clean drinking water). Explore the roles of light and air in keeping classrooms fresh and healthy How are the wastes disposed of in your school? For savingwater,what has our school done?
MATHS	Q1.Data collection: Collect data about things in your school-the number of students in each class, the type of trees in the school garden, number of books in the library, the colours of school bags, etc.Represent this data using A.Bar graph B.Pictograph Q2. Shapesafari: Identify and classify different 2D and 3D shapes found in the school building, furniture and surrounding. Create a collage or a presentation showcasing these shapes. Q3.Calculate the time taken for different school activities e.g.Assembly time,snacks and lunch time, duration of each class.

CLASS V

Homework is a **Multi-Disciplinary Project** on the topic "**Healthy Living – Food and Fitness**" **integrating all the subjects**. The homework should be submitted on 21st June 2025 without fail.

SUBJECT	HOMEWORK
ENGLISH	Q1 Topic: "My journey to a healthier me" - Make a picture magazine on the above title. Include topics like healthy food, exercises, food with nutritive values, etc. Q2 Creative writing: Write a short paragraph (8-10 lines) titled "Why I want to stay fit and healthy?". Q3 Create a colorful cartoon story on "Eat Healthy, Stay Healthy". You may add pictures from magazines or newspapers to make it more creative.

HINDI	हिन्दी प्रश्न -1 एक छोटा अनुच्छेद लिखिए जिसमें स्वस्थ भोजन के लाभ बताए गए हों। ऐसे वास्तविक उदाहरण दीजिए जहाँ आपने या आपके किसी जानने वाले ने स्वस्थ खाना खा अपनी सेहत में सुधार किया हो। प्रश्न -2 शोध कर एक संक्षिप्त रिपोर्ट तैयार कीजिए कि क्यों प्रधानमंत्री और सरकार ने रोजमर्रा के जीवन में तेल की खपत को कम करने की पहल की है। इसमें किसी भी अभिय सार्वजनिक संदेश को शामिल करें। प्रश्न-3 प्रश्न 1 में लिखे गए अनुच्छेद से निम्नलिखित पहचानिए: सभी संज्ञाएँ (व्यक्ति, स्थान, वस्तुएँ) सभी सर्वनाम (जैसे: वह, ये, वे, मैं आदि) सभी क्रिया विशेषण (जैसे: कैसे, कब, कहाँ, कितनी मात्रा में कुछ हुआ) प्रश्न-4 एक छोटी काल्पनिक कहानी लिखिए जिसमें मुख्य पात्र अपने भोजन की आदत बदलकर सेहतमंद बनता है। बताइए कि उसने क्या बदलाव किए, उसे कैसा महसूस हुआ क्या नतीजे सामने आए। कहानी में भोजन या फिटनेस से जुड़े कम से कम 5 नए शब्दों कीजिए।
THE WORLD AROUND US	**Q1 My Healthy Plate:** Draw a big plate. Divide it into 4 sections: Fruits, vegetables, grains, proteins. Paste or draw pictures of healthy food items in each section. Label them neatly. **Q2 Fitness Fun Chart:** Make a "7-day fitness chart". Record one fitness activity you do every day (e.G., Running, yoga, skipping, cycling). Write the time spent on each activity. **Q3 Collage making:** Make a colorful collage titled "healthy habits for a healthy life". Use old magazines,newspapers or drawings to show good habits: eating fruits, drinking water, exercising, sleeping early, etc. **Q4 Food Hunt:** Find out at least five different food items from each group: Body-building foods (proteins) Energy-giving foods (carbohydrates and fats) Protective foods (vitamins and minerals) Write their names and benefits.
MATHS	Q1 Create a healthy lunch menu with 3 food items. Use food charts or nutrition labels to note their energy content. A) What is the total cost of the items on the list? B) If you want to keep your lunch under 500 calories, do you need to remove or replace any item?

	Q2 Collect 10 food wrappers/labels or pictures of common foods. Make a table to show the energy (calories), fat, cholesterol and protein of each food item. Question: A) Sort the foods from lowest to highest calories. B) Which food has low energy but high cholesterol? C) Make a bar graph showing calories in each food.

CLASS VI

Homework is a **Multi-Disciplinary Project** on the topic "**Water**" **integrating all the subjects**. It has to be handwritten in a single notebook across 7-9 pages. Presentation must be neat. The pictures should be drawn and not pasted. The homework should be submitted on 21st June 2025 without fail.

CLASS VII

Homework is a **Multi-Disciplinary Project** on the topic "**Soil**" **integrating all the subjects**. It has to be handwritten in a single notebook across 7-9 pages. Presentation must be neat. The pictures should be drawn and not pasted. The homework should be submitted on 21st June 2025 without fail.

CLASS VIII

Homework is a **Multi-Disciplinary Project** on the topic "**Air**" **integrating all the subjects**. It has to be handwritten in a single notebook across 7-9 pages. Presentation must be neat. The pictures should be drawn and not pasted. The homework should be submitted on 21st June 2025 without fail.

CLASS IX

Homework for all the subjects should be submitted on 21st June 2025 without fail.

SUBJECT	HOMEWORK
ENGLISH	1. Short Story Inspired by a Local Landmark: Choose a well-known place in or near Coimbatore and write a short story that uses the landmark as a setting or character. This could be a historical site, a natural wonder, or a significant building. 2. Travel Blog about a Virtual Tour of India: Research different regions of India and write a blog post describing your virtual travels, highlighting the culture, cuisine, and attractions. You could even create a virtual travel package for others to follow. 3. Character Sketch from a Fictional World: Select a fictional character from a book, movie, or TV show and write a detailed character sketch, including their personality, motivations, and role in the story. You can also explore the character's relationship with others and the themes they represent. 4. Diary Entry from the Perspective of a Historical Figure: Choose a historical figure from the class syllabus and write a diary entry from their perspective, recounting an event from their life and expressing their thoughts and emotions. You could even research their background to make the entry more

	authentic. You could make it hilarious by recording their reactions to the present conditions of society.
HINDI	1. अपनी किसी एक यात्रा का संक्षिप्त विवरण कीजिए। 2. अनुच्छेद लिखिए। विद्यार्थी जीवन संकेत बिन्दु:-1.जीवन निर्माण का काल 2. विद्यार्थी के लक्षण 3. विद्यार्थी के कर्तव्य 3. पत्र लेखन। (1)बड़े भाई की शादी में शामिल होने के लिए तीन दिन के अवकाश हेतु पत्र लिखिए। (2) अपने मित्र को एक पत्र लिखकर उसे अपने स्कूल के वार्षिक उत्सव के बारे में बताते हुए पत्र लिखिए। 4.उपसर्ग एवम् प्रत्यय की परिभाषा बताते हुए 10-10 उदाहरण लिखिए। ## पोर्टफोलियो हिन्दी पोर्टफोलियो तैयार करें जिसमें निम्न बिंदु शामिल हैं (1) अपना परिचय (2) परिवार का विवरण (3) अपनी पसंदीदा पुस्तक की समीक्षा (4) प्रिय कवि व लेखक पर लेख
SANSKRIT	- संस्कृत छात्र प्रतिज्ञा लिखन्तु स्मरन्तु च। - अवकाशस्य अनुभवम् लिखत। - शब्दरूपाणि – बालक ,लता ,फल भवत् ,साधु , किम् (त्रिषु लिङ्गेषु) - धातुरूपाणि – भू ,गम्(गच्छ) ,नम् ,अस् ,प्रच्छ [(लट्,लङ्,लृट्,लोट्,विधिलिङ्ग (पञ्चलकारेषु)] - संख्यावाचकशब्दाः (एकतः शतम् पर्यन्तम्) - क्रियाकलापः-॥ पर्यावरणं विषये दशं श्लोका अर्थं च चित्रसहितम् लिखत।

MATHS	1. Between two rational numbers
	   (a) There is no rational number
	   (b) There is exactly one rational number
	   (c) There are infinitely many rational numbers
	   (d) There are only rational numbers and no irrational numbers
	
	2. Which of the following is irrational?
	   (a) $\sqrt{49}$ b) $\sqrt{81}$ (c) $\sqrt{\dfrac{12}{3}}$ (d) $\dfrac{\sqrt{4}}{9}$
	
	3. Simplify: $(\sqrt{5}-\sqrt{6})(\sqrt{5}+\sqrt{6})$
	4. Express $0.\overline{001}$ in the form of $\dfrac{p}{q}$ where p and q are integers and $q \neq 0$
	5. Simplify: $2^{\frac{2}{3}} \times 2^{\frac{1}{3}}$
	6. Find five rational numbers between $\dfrac{3}{4}$ and $\dfrac{4}{5}$
	7. Simplify: $(4\sqrt{5}+3\sqrt{7})^2$
	8. Rationalize the denominators of $\dfrac{1}{2-\sqrt{5}}$
	9. Calculate the value of $11^{\frac{1}{2}} \div 11^{\frac{1}{4}}$
	10. Locate $\sqrt{3}$ and $\sqrt{2}$ on number line.
	11. Fill in the blanks:
	  I. $(x-y)^2 =$ _____
	  II. $(x+y+z)^2 =$ _____
	  III. $(x-y)^3 =$ _____
	  IV. $(x-y)^2 =$ _____
	  V. $(x+y)(x-y)=$ _____

SCIENCE	Complete the following worksheet: Fill in the blanks 1. The temperature at which a liquid starts boiling is called its _____. 2. The conversion of solid directly into gas is called _____. 3. Rate of evaporation increases with increase in _____. 4. The basic structural and functional unit of life is the _____. 5. Mitochondria are known as the _____ of the cell. Answer the following 1. Define matter. Give two examples of matter from your surroundings. 2. State the characteristics of particles of matter. 3. What is diffusion? Give an example to explain. 4. Explain the function of the plasma membrane. 5. Name any two cell organelles and mention their functions. (Label the following parts: Nucleus, mitochondria and states of matter)

SOCIAL SCIENCE	I. Prepare a file on Disaster Management taking any one of the following topics:
	1-Flood, 2-Drought, 3-Earthquake, 4-Industrial Accidents
	
	II. Prepare 20 objective (1 mark) questions each from these five chapters:
	  • French Revolution
	  • India Size and Location

	• What is Democracy, Why Democracy • Story of Village Palampur • Physical features of India III. Prepare map work from these chapters – Chapter 1: India Size and Location: 1) The island groups of India lying in the Arabian sea and the Bay of Bengal, 2) The countries constituting Indian Subcontinent, 3) The states through which the Tropic of Cancer passes, 4) The strait separating Sri Lanka from India. Chapter 2: Physical features of India: Mountain Ranges: The Karakoram, The Zaskar, The Patkai Bum, The Jaintia, The Vindhya Range, The Aravali, The Cardamon hills, The Indian desert, The Western Ghats. Peaks: K2, Kanchenjunga, Nanga Parbat, Anaimudi, Mahendragiri.

DIGITAL LEARNING - ARTIFICIAL INTELLIGENCE	1) Explain AI Project Cycle.
	2) Create Problem statement template using 4W framework for the following AI models:
	  a) Recommendation Engine by YouTube
	  b) Weather Prediction Model by Indian Meteorological Dept
	Write it in A4 sheet on both sides.

CLASS X

Homework for all the subjects should be submitted on 21st June 2025 without fail.

SUBJECT	HOMEWORK
ENGLISH	1. Create an Infographic/ brochure promoting healthy habits. (information in a clear and concise manner with key elements, brief description or explanation, data, images with a colourful presentation) 2. Make a PowerPoint presentation on different career options (Group work) 3. Email writing 4. Letter to editor, letter placing order, complaint letter, letter of enquiry 5. Article writing 6. Descriptive paragraph writing
HINDI	1.निम्नलिखित संकेत बिंदु के आधार पर अनुच्छेद लिखिए (क)आत्मनिर्भर भारत - संकेत बिंदु:- (1)आत्मनिर्भर आवश्यक क्यों.(2)अभियान का प्रभा(3)बाधाएँ और सुझाव (ख)जीवन में खेलकूद का महत्त्व -संकेत बिंदु:-(1)भूमिका.(2) खेलों से लाभ,(3)मानवीय गुणों का विकास (ग) ग्लोबल वार्मिंग और जन जीवन -संकेत बिंदु:-(1)अर्थ व स्वरुप.(2)हानियां और लाभ (3) बचाव के उपाय. (4)उपसंहार 2.रचना के आधार पर वाक्य के भेद सरल, संयुक्त, मिश्रित वाक्य के 10-10-10 उदाहरण लिखिए 3. अपनी किसी एक यात्रा का संक्षिप्त विवरण कीजिए। 4.विद्यालय की विज्ञान प्रयोगशाला को अत्याधुनिक बनाने की आवश्यकता समझाते हुए अपने विद्यालय के प्रधानाचार्य को पत्र लिखिए

	5.अपनी छोटी बहन को पत्र लिखिए जिसमें चिड़ियाघर की सैर से प्राप्त अनुभवों की जानकारी दी गई हो **पोर्टफोलियो** हिन्दी पोर्टफोलियो तैयार करें जिसमें निम्न बिंदु शामिल हैं (1)अपना परिचय (2)परिवार का विवरण (3)अपनी पसंदीदा पुस्तक की समीक्षा (4)प्रिय कवि व लेखक पर लेख
SANSKRIT	- संस्कृत छात्र प्रतिज्ञा लिखन्तु स्मरन्तु च। - अवकाशस्य अनुभवम् लिखत। - शब्दरूपाणि - बालक ,लता ,फल भवत् ,साधु ,किम्(त्रिषु लिङ्गेषु) - धातुरूपाणि - भू ,गम्(गच्छ) ,नम् ,अस् ,प्रच्छ [(लट्,लङ्,लृट्,लोट्,विधिलिङ्ग (पञ्चलकारेषु)] - चित्रवर्णनम् (द्वे) , पत्रलेखनम् (द्वे) - क्रियाकलापः-॥ पर्यावरणं विषये दशं श्लोका अर्थं च चित्रसहितम् लिखत।
MATHS	Answer the following questions: 1. Show that each of the following is a composite number: (i)$5 \times 11 \times 13 + 13$ (ii) $6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5$ 2. Show that any number of the form 4^n, $n \in N$ can never end with the digit 0. 3. Find the largest number which divides 129 and 545, leaving remainders 3 and 5 respectively. 4. Using prime factorization, find the HCF and LCM of: (i) 36, 84 (ii) 23, 31 (iii) 96, 404 (iv) 144, 198 (v) 396, 1080 (vi) 1152, 1664 In each case, verify that: HCF × LCM = product of given numbers. 5. Using prime factorization, find the HCF and LCM of: (i) 8, 9, 25 (ii) 12, 15, 21 (iii) 17, 23, 29 (iv) 24, 36, 40 (v) 30, 72, 432 (vi) 21, 28, 36, 45

6.The HCF of two numbers is 23 and their LCM is 1449. If one of the numbers is 161, find the other.

7. Find the largest four-digits number which when divided by 4, 7 and 13 leaves a remainder of 3 in each case.

8. Find the least number which when divided by 20, 25, 35 and 40 leaves remainders 14, 19, 29 and 34 respectively.

9. Prove that each of the following numbers is irrational.

(i) $\sqrt{6}$ (ii) $(2-\sqrt{3})$ (iii) $(3+\sqrt{2})$ (iv) $(2+\sqrt{5})$

(v) $(5+3\sqrt{2})$ (vi) $3\sqrt{7}$ (vii) $\dfrac{3}{\sqrt{5}}$ (viii) $(2-3\sqrt{5})$

(ix) $(\sqrt{3}+\sqrt{5})$

10. Find the zeros of the following quadratic polynomials and verify the relationship between the zeros and the coefficients:

1. $x^2+7x+12$ 2. x^2-2x-8

3. $x^2+3x-10$ 4. $4x^2-4x-3$

5. $5x^2-4-8x$ [CBSE 2008]   6. $2\sqrt{3}x^2-5x+\sqrt{3}$

7. $2x^2-11x+15$ 8. $4x^2-4x+1$

11. Find the quadratic polynomial whose zeros are 2 and −6. Verify the relation between the coefficients and the zeros of the polynomial.

12. Find the quadratic polynomial whose zeros are 2/3 and -13. Verify the relation between the coefficients and the zeros of the polynomial.

13. If $x=\dfrac{2}{3}$ and $x=-3$ are the roots of the quadratic equation $ax^2+7x+b=0$, then find the values of a and b.

14. Find a cubic polynomial whose zeros are 3, $\dfrac{1}{2}$ and -1.

15. Verify that 3, −2, 1 are the zeros of the cubic polynomial $p(x)=x^3-2x^2-5x+6$ and verify the relation between its zeros and coefficients.

16. If -4 is a zero of the polynomial $x^2-x-(2k+2)$ then find the value of k.

17. If the sum of the zeros of the quadratic polynomial kx^2-3x+5 is 1, write the value of k.

18. If α and β are the zeros of the polynomial $f(x)=6x^2+x-2$, find the value of $\dfrac{\alpha}{\beta}+\dfrac{\beta}{\alpha}$

19. If α and β are the zeros of the polynomial $f(x)=x^2+x-2$, find the value $\dfrac{1}{\alpha}-\dfrac{1}{\beta}$

20. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

SCIENCE	1) Prepare Portfolio on the topic "Management of natural resources"
	2) Draw the following diagrams:
	  • Digestive system
	  • Respiratory system
	  • Circulatory system

	• Excretory system 3) Practice questions from chapter chemical reactions and equations

SOCIAL SCIENCE	1. Prepare a project file on any one of the following topics:
	  a) Consumer awareness
	  b) Social issues
	  c) Sustainable development
	2. Prepare 20 objective (1 mark) questions each from these five chapters:
	  a) Power sharing
	  b) Resources and Development
	  c) Development
	  d) Rise of Nationalism in Europe
	  e) Nationalism in India
	3. Prepare map work for the following places in a political map of India.
	i) Indian National Congress Sessions:
	    a. Calcutta (Sep. 1920)
	    b. Nagpur (Dec. 1920)
	    c. Madras (1927)
	  ii) Important Centres of Indian National Movement
	    a. Champaran (Bihar) - Movement of Indigo Planters
	    b. Kheda (Gujarat) - Peasant Satyagrah
	    c. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha
	    d. Amritsar (Punjab) - JallianwalaBagh Incident
	    e. Dandi (Gujarat) - Civil Disobedience Movement

DIGITAL LEARNING - ARTIFICIAL INTELLIGENCE	Complete the following stages for AI Project which should be a real-life application.
	1) Problem Scoping (4W Framework)
	2) Data Acquisition (Sample data of 10 records must be written)
	  For Public Datasets, visit the following links:
	https://www.data.gov.in/
	https://www.kaggle.com/datasets
	3) Data Exploration (Minimum 5 charts to be hand-drawn)
	  For different types of charts, visit https://datavizcatalogue.com/
	Write it in A4 sheet on both sides.
	
	Reference projects can be viewed at
	https://cbseacademic.nic.in/web_material/Curriculum20/AI_Project_Showcase.pdf