

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 1
SUBJECT – ENGLISH

Days

...

Write the missing letters.

M n d y

T u s a y

W d e d a y

T u r d a

F r d y

S t u d a

S n a y

yesterday	today	tomorrow
	Wednesday	
	Friday	
	Sunday	
	Saturday	
	Tuesday	
	Thursday	
	Monday	

BEFORE AND AFTER ...

LAST MONTH	THIS MONTH	NEXT MONTH
	January	
	February	
	March	
	April	
	May	
	June	
	July	
	August	
	September	
	October	
	November	
	December	



Finish the words using the Vowels

A E I O U



S__N



L__G



B__LL



T__B



__GLOO



D__CK



S__CK



B__T



T__NT



F__RE



__NT



K__Y



P__G



D__G



B__Y



L__G

Cursive Writing Worksheet

Trace and write the sentences:

Health is better than wealth.

Life is what you make it.

Wisdom is easy to carry but difficult to gather.

You can never plan the future by the past.

You have to take the bitter with the sweet.

Write your own sentence!

Trace and write the letters:

ir kn

ir ir ir ir ir ir ir

ir ir ir

ir

kn kn kn kn kn kn

kn kn kn

kn

bird bird bird

knee knee knee

Trace and write the letters:

sh th

sh sh sh sh sh sh sh sh

sh sh sh

sh

th th th th th th th th

th th th

th

wish wish wish

bath bath bath

Trace and write the letters:

ai *ar*

ai ai ai ai ai ai ai ai

ai ai ai

ai

ar ar ar ar ar ar ar

ar ar ar

ar

fair fair fair

far far far

Look at the Picture and Write Correct Verbs

- Read
- Play
- Swim
- Sleep
- Eat
- Jump
- Write
- Climb
- Run
- Sing
- Laugh
- Exercise



1.



F

S

2.



E

3.



C

R

T

4.



F

5.



I

N

6.



R

Opposite words

Match the opposite words.



Big

•

• Short



Tall

•

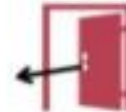
• Cold



Up

•

• Out



Hot

•

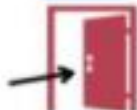
• Small



New

•

• Girl



In

•

• Down



Boy

•

• Many



Few

•

• Old



SUBJECT – HINDI

लेखन अभ्यास

- 1.) वर्णमाला अभ्यास: अ से अं और क से ज्ञ तक प्रत्येक को चार बार सुंदर लेखन में लिखें।
- 2.) मात्रा अभ्यास: अभी तक सीखी गई मात्राओं (आ, इ, ई) में से प्रत्येक मात्रा के 5 शब्द लिखें।

पठन अभ्यास

3. दैनिक पठन: प्रतिदिन हिंदी की पुस्तक से एक पृष्ठ पढ़ें और कठिन शब्दों को नोट करें।

रचनात्मक गतिविधियाँ

- 4.) चित्र बनाएं: अपने पसंद की फलों, जानवरों, और वस्तुओं के चित्र चिपकाये / बनाएं और उनके नाम हिंदी में लिखें।
- 5.) मास्क बनाएं: अपने पसंद के जानवर के चेहरे का मुखौटा बनाये।

शब्द ज्ञान

- 6.) शब्द निर्माण: दिए गए अक्षरों (जैसे: ख, घ, छ, झ, ट, ड, थ, ध, फ, ब, भ, य) से शुरू होने वाले 5-5 शब्द लिखें।
- 7.) अच्छे व्यवहार: अच्छे व्यवहार से संबंधित 5 चित्र काटकर चिपकाएं और उनके बारे में एक-एक वाक्य लिखें।

SUBJECT – MATHS

1. Write the numbers from 1 to 100.
2. Count the utensils in your house and write the number in your Maths notebook.
3. Write and learn the names of the days of the week.
4. Write and learn the tables of 1 and 2.

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 2

SUBJECT – ENGLISH

1) Write one page cursive writing per week.

2) Learn and write the poem "My Bicycle".

3) Write the correct spelling of following-

- a) Name of your mother
- b) Name of your father
- c) Name of your city/village
- d) Name of your favourite animal
- e) Name of your favourite game

4) Write any 5 words and their opposite words.

SUBJECT – HINDI

- 1) एक बार वर्णमाला और बारहखड़ी लिखो ।
- 2) हर रोज एक वाक्य लिखो ।
- 3) यातायात के साधनों के 4 चित्र चिपकाइए और नाम लिखिए ।
- 4) किसी भी जानवर की कोई एक कहानी पढ़िए और सीखिए ।
- 5) इ की मात्रा से बनने वाले शब्द अपनी किताब से खोजकर लिखो।

SUBJECT – MATHS

1- Draw a train with 10 coaches. Write number from 101 to 110 in each coach.

2- Fill in the missing numbers.

85, __, 87, __, 89, __, 91

3- Find and draw 5 different shapes in your house.

4- Make a calendar of month of May 2025.

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 3

SUBJECT – ENGLISH

- (1) Read stories of Panchatantra. Note down the title and the characters of the Story .
- (2) Write half a page cursive writing, daily.
- (3) Write a paragraph on “My pet Animal”.
- (4) Write/ paste five headlines (of any week) from the newspaper on a chart paper.
- (6) Learn and write one new word daily, learn its spelling and search the dictionary for its meaning.

SUBJECT – HINDI

- 1) एक बार वर्णमाला और बारहखड़ी लिखो ।
- 2) हर रोज एक वाक्य लिखो ।
- 3) पेड़ का चित्र बनाकर उनके भागों का नाम लिखो।
- 4) अपनी पसंद के जानवर का चित्र बनाओ और उस जानवर पर कोई एक कहानी लिखो ।
- 5) अ से ई तक की मात्रा से बनने वाले पांच पांच शब्द अपनी किताब से खोजकर लिखो।

SUBJECT – MATHS

1. Make 3D shapes (cube, cone, cylinder, cuboid, sphere) using paper.
Write number of faces, edges, and corners for each.
2. Choose 10 numbers (100–999). Break into Hundreds, Tens, Ones and write expanded form.
3. Write number names for 10 three-digit numbers.
4. List the smallest and largest numbers (single digit to four digit)
5. Make a birthday chart of your family members. Writing their date of births, calculate the difference between their age.
6. Draw a tree. Write multiplication tables (2–15) on branches.

SUBJECT – COMPUTER

1. Draw diagram of computer system with all the parts on a chart paper.
2. Write 5 rules to follow in a Computer Lab in a white paper sheet.
3. Write the name of videos you like to watch on mobile phone in your copy.

SUBJECT – ART

1. Make coconut tree and colour it.
2. Make a picture of “POT”.

SUBJECT – EVS

- 1- Paste a picture or draw your favourite plant.
- 2- Draw a picture of the members of your family and write your relationship with them.
- 3- Write down the name of relatives who visit your family how are they related to you.

NAME OF THE RELATIVE	HOW ARE YOU RELATED TO THEM?	WHAT DO YOU CALL THEM

- 4.- Make a chart so gai aur daily routine during summer vacation includes -wake up, breakfast ,lunch ,playing ,reading, use mobile R TV ,sleep.

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 4

SUBJECT – MATHS

1. Measure 3 things in your house using a scale (like your book, pencil box, or phone). Write their lengths in cm.
2. Help your parents while shopping. Note the price of 5 items and find the total cost.
3. Count how many doors and windows are in your house. Find the total.
4. Draw or color any 2 patterns using shapes or numbers.
5. Draw a clock and show the time:
 - a. 7:15
 - b. 12:30
 - c. 5:45
6. Write the dates of all Sundays in June and How many Mondays are there in July?

SUBJECT – HINDI

लेखन अभ्यास

- 1.) प्रतिदिन एक पृष्ठ सुलेख लिखें।
- 2.) नैतिक शिक्षा वाली कोई कहानी पढ़ें और उसका सारांश लिखें।
- 3.) "ग्रीष्मकालीन अवकाश मैंने कैसे बिताया?" विषय पर 10 वाक्य लिखें।

शब्द ज्ञान

- 4.) स्वयं से प्रयास करके दस विलोम शब्द, पर्यायवाची शब्द और मुहावरे लिखें और याद करें।

पठन अभ्यास

- 5.) हिंदी समाचार पत्र पढ़ें और एक खेल समाचार लिखें।
- 6.) हिंदी पाठ्यपुस्तक के पाठ 1 से 4 तक ध्यानपूर्वक पढ़ें और प्रत्येक पाठ से 10 कठिन शब्द लिखें।

रचनात्मक कार्य

- 7.) किसी देशभक्ति पर आधारित कविता A-4 शीट पर लिखें और याद करें।
- 8.) घर के अंदर और बाहर खेले जाने वाले खेलों की सूची बनाएं और चित्र चिपकाएं।

नोट: सभी कार्य एक अलग नोटबुक में साफ-सुथरे और सुंदर लेखन में करें। गृहकार्य स्कूल खुलने के पहले दिन जमा करें।

SUBJECT – COMPUTER

1. Draw and label important keys on Keyboard in a chart paper.
2. Write the name of application you use in your mobile phone in your note copy.
3. Write 5 shortcut keys on a keyboard in your copy.

SUBJECT – EVS

1. Field observation - Visit in Sabzi Mandi observe and explore that place and make a list of food items in your notebook.
2. Take a seed and place it in wet cotton. Observe it every day. What happens after 2-3 days? Write a short report.
3. Do all liquids mix with water? Try adding oil, salt and sugar to water. What happens?

SUBJECT – ENGLISH

1. Write 20 pages of English handwriting.
2. Write 10 nouns from your surroundings and make a sentence with each.
3. Write the names of 20 animals and their feminine genders.
4. Write 10 action words and make a sentence with each.
5. Write 10 adjectives and make a sentence with each.

SUBJECT – ART

1. Draw a beautiful village scene.and colour it.
2. Draw a picture of “SURAHI”.

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 5
SUBJECT – ENGLISH

1. Create a large, colorful “Grammar Garden” poster where:

- ❖ *Nouns* are flowers
- ❖ *Verbs* are bees
- ❖ *Adjectives* are leaves
- ❖ *Adverbs* are butterflies
- ❖ *Pronouns* are clouds
- ❖ *Prepositions* are roots
- ❖ *Conjunctions* are vines
- ❖ *Interjections* are suns

Instructions:

- * Draw and label each part of speech with 5 examples.
- * Use real magazine cut-outs or drawings for creativity.
- * Include definitions in a corner.

2. Make a *mini-album or scrapbook* with one page for each type of figure of speech:

- *Simile*
- *Personification*
- *Alliteration*

Instructions:

1. Write an example sentence for each.
2. Create a small *illustration* for each figure.
3. Add stickers, colors, and cut-outs to make it attractive.

3. **Affixes –

Make a *3D tree model or collage*:

- The *roots* show *prefixes* (re-, un-, dis-, pre-)
- The *branches* show *suffixes* (-ful, -less, -ness, -able)
- The *leaves* show *base/root words*.
- The *fruit/flowers* are *new words* formed using affixes.

4. Make a chart of punctuation marks , define and give examples of each.

5. Make a *paper postbox* and write a letter to your friend describing your summer vacation experience.

6) Write 5 pages beautiful neat and clean, cursive handwriting.

SUBJECT – MATHS

Project Based Holiday Homework

1.) Draw Patterns:

Observe and draw five different patterns you see around you, such as on fabrics, tiles, or nature. (A4 size paper)

2.) Odd and Even Numbers Activity:

Create two pots labeled 'Odd' and 'Even'. Write numbers on colored paper flowers and place them in the appropriate pots.

3.) Shapes Around Me (Fun With Shapes)

Objective: Identify 2D and 3D shapes in the environment.

Activity: Click or draw pictures of 10 different objects in your home or neighborhood and label their shapes (e.g., cylinder for a bottle, cube for a box).

4.) Shape Craft Collage

Objective: Learn shape properties through art.

Activity: Cut colored paper into triangles, rectangles, circles, and squares. Use them to make a scenery or animal.

Extension: Label each shape used and count how many of each were used.

5.) Math Story Problems: Write and solve your own word problems based on real-life scenarios, such as shopping or traveling.

6.) With the help of the link given below prepare Napier Strips. (Bridge Programme)
Multiply the following using Napier strips:

A. 432×6

B. 563×4

C. 287×7

D. 4156×9

E. 3456×5

LINK - https://youtu.be/4f-yAZ_Blpc?si=m7WJB0dq8lxHcO64

7) Write and Learn table from 2 to 20. (Write 4 times)

SUBJECT – EVS

1. Bridge Course: Write and learn all the classwork upto 30th April 2025.

2. Waste to Wonder – create any 2 useful item (pen stand , bird feeder , wall hanging) using waste material .

4. Let's Be a Reporter – Interview two elders (grandparents , neighbours) and ask

- How was life when they were children ?

HINT : (Games , travel , school , food)

- Write their experience in 8 -10 sentences

SUBJECT – COMPUTER

1. Draw or paste picture of any five Input and five Output devices in your note copy.
2. Write about your favorite applications you use in your mobile phone in your note copy.
3. Draw a keyboard in a chart paper and label all the important keys.
4. Write an essay about “How mobile phone can be harmful to kids”.

SUBJECT – HINDI

1. 20 पृष्ठ हिंदी सुलेख लिखिए।
2. 10 मुहावरे उनके अर्थ तथा वाक्य प्रयोग सहित लिखिए।
3. 10 लोकोक्तियाँ उनके अर्थ तथा वाक्य प्रयोग सहित लिखिए।
4. किसी एक लघु कथा को पढ़कर अपने शब्दों में लिखिए।
5. अपने आस-पास के परिवेश से 10 संज्ञाएँ लिखिए और प्रत्येक से एक-एक वाक्य बनाइए।

SUBJECT – ART

1. Draw a scenery of mountain and river
2. Draw an elephant.

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 6
SUBJECT – SCIENCE

1. Key Features and Capabilities of S-400/Sudarshan Chakra Air Defence System

What are the key features and capabilities of the S-400/Sudarshan Chakra air defence system of India?

2. Benefits and Applications of Drones

What are the benefits and applications of drones in various fields, and why are they important in today's modern era?

3. Notable Achievements of ISRO and DRDO

What are some notable achievements of ISRO and DRDO in their respective fields?

4. Helping the Nation in Emergency

As a patriotic citizen of India, how will you help the nation in emergency?

5. Completing Chapters in Science NCERT

Complete the first 3 chapters of science:

Read NCERT, Understand key Terms only.

- *Chapter 1: Wonderful World of Science*
- *Chapter 2: Diversity in Living World*
- *Chapter 3: Mindful Eating: A Path to a Healthy Body*

6. Reading Biography of Dr. APJ Abdul Kalam

Read the biography of Dr. APJ Abdul Kalam, the Missile Man of India.

7. Very Short Questions

- a) From which country did India acquire the S-400 air defence system?*
- b) From which country did India acquire the Rafale advanced aircraft?*
- c) From which country did India purchase the Scorpène submarine?*
- d) What is the highest gallantry award in India?*
- e) What is Operation Sindoor?*
- f) Which states of India are located near the Pakistan border?*
- g) Who is the National Security Adviser of India?*
- h) What is the range of the Agni-5 missile?*
- i) What is the aim of your life?*
- j) Who said, "Education is the biggest weapon which is used to change the world"?*

REMEMBER:- Solve Q 1,2,3,4 & 7 in SCIENCE NOTE COPY ONLY.

Q 6 & 7 .You have to read, understand.

You can take help from your parents .

SUBJECT – MATHS

Chapters: Patterns in Mathematics & Lines and Angles

Part A: Patterns in Mathematics

1. Number Patterns:

- a) 2, 4, 8, 16, __, __, __, __, __
- b) 1, 4, 9, 16, 25, __, __, __, __, __
- c) 100, 90, 80, __, __, __, __, __

2. Picture Patterns:

Draw and continue any 2 picture patterns using shapes or stick figures for 5 more steps. (Use your creativity! You may use colored pencils.)

3. Create Your Own Pattern:

Invent a number or shape pattern. Write at least 5 steps and explain the rule of your pattern.

4. Pattern Puzzle (Fun Time):

Solve this riddle: I am a 3-digit number. My tens digit is 5 more than my ones digit. My hundreds digit is 8 less than my tens digit. Who am I?

Part B: Lines and Angles

1. Types of Lines:

- Draw and label:
 - a) A pair of parallel lines
 - b) A pair of intersecting lines
 - c) A pair of perpendicular lines

2. Types of Angles:

- Identify and draw each of the following:
 - a) Acute angle
 - b) Right angle
 - c) Obtuse angle
 - d) Straight angle

3. Angle Measurement Practice:

- Use a protractor to draw angles of the following measures:
 - a) 45°
 - b) 90°
 - c) 120°
 - d) 180°

4. Real-Life Application:

Click or draw any 3 objects from your surroundings that show different types of angles or lines (e.g., scissors, clock hands, window frame) and label the types of lines or angles shown.

Instructions:

- Neatly complete your homework in your maths holiday notebook.
- Be creative with patterns and drawings.
- Submit your work on the first day after the holidays.

SUBJECT – ENGLISH

1) Write two short stories of your choice along with a moral.

2) Write paragraph on MY FAMILY, MY FAVOURITE FESTIVAL ?

3) Write 20, three form of verbs.(1st form,2nd form and 3rd form) of 20 different verbs of your choice also, learn it.

4) Write 10 tongue twisters in English ?

SUBJECT – SOCIAL SCIENCE

History:

1. Project Work: Create a small project (5–6 pages) on “The Earliest People – How they lived”.
 - Draw pictures of tools they used.
 - Write about how they found food and shelter.
 - Mention important archaeological sites.
2. Timeline Activity: Make a timeline chart showing important periods like the Stone Age, Bronze Age, Iron Age.

Geography:

1. Map Work: On a physical world map: •
 - Mark and label five major rivers of the India.
 - Mark continents and oceans.
2. Model/Chart: Make a simple model or chart of the Solar System or Layers of the Earth.

Civics:

1. My Duties at Home: Write a paragraph about what duties and responsibilities you have at home during holidays. (e.g., helping parents, keeping your room clean)
2. Poster Making: Make a colorful poster on the topic: “Why Rules Are Important in Our Life?”

General Instructions:

- Keep your work neat and colorful.
- Use pictures, drawings, and captions wherever possible.
- Submit your work in a folder or file

SUBJECT – SANSKRIT

1. संस्कृत छात्रप्रतिज्ञायाः प्रार्थनायाः च वाचनस्य पुनः पुनः अभ्यासं कुरुत ।
(संस्कृत छात्रप्रतिज्ञा और प्रार्थना को पुनः पुनः बोलने का अभ्यास करें और याद करें)
2. संस्कृतभाषायाः 13 स्वर, 33 व्यञ्जन वर्णाणां च पुनः पुनः अभ्यासं कृत्वा क्रमानुसारं स्व
अभ्यासपुस्तिकायां लिखत ।
(संस्कृतभाषा के 13 स्वर, 33 व्यञ्जन वर्णों का पुनः पुनः अभ्यास करके क्रमानुसार अपनी अभ्यास पुस्तिका में लिखो)
3. संस्कृते त्रीणि लिङ्गानि, त्रयः पुरुषाः, त्रीणि वचनानि च कानि सन्ति, स्व-अभ्यासपुस्तिकायां
लिखत ।
(संस्कृत भाषा के तीन लिङ्ग ,तीन पुरुष , तीन वचन कौन कौन हैं उनके नाम अपनी अभ्यासपुस्तिका में लिखो)
4. 10 वर्ण (रंग) नामानि लिखत ।
5. 10 पशवः (पशु) नामानि लिखत ।
6. 10 खगाः(पक्षी) नामानि लिखत ।

SUBJECT – ART EDUCATION

1. Draw a “**Water bottle**” using geometric shapes.
2. Make a poster. **Topic- “yoga day”**

SUBJECT – ARTIFICIAL INTELLIGENCE

1. Find **5 examples** of how AI is used in daily life (e.g., voice assistants, smart lights, YouTube recommendations).

- Paste or draw pictures
- Write one sentence for each explaining how AI is used

2. Visit the website and play the guessing game with AI - <https://quickdraw.withgoogle.com/>

- A fun AI game by Google where you draw, and the AI guesses.

3. Visit the website <https://studio.code.org/s/oceans/lessons/1/levels/2> play the game Oceans for AI.

- Train AI in identification of fish and run the game.
- Teaches students how AI is trained to clean oceans by recognizing trash.

SUBJECT – HINDI

1. रचनात्मक लेखन

शीर्षक : “मेरी गर्मी की छुट्टियाँ कुछ खास है!”

एक पृष्ठ में अपनी गर्मी की छुट्टियों की योजना का वर्णन करें। आप यात्रा, अपने प्रिय खेल, या परिवार के साथ बिताए समय के बारे में लिख सकते हैं।

2. चित्रकथा बनाएं

5-6 चित्रों में एक कहानी दिखाएं। हर चित्र के नीचे 1-2 पंक्तियों में संवाद या वर्णन लिखें और उस कहानी को एक आकर्षक शीर्ष नाम दें

3. पर्यावरण पर पोस्टर बनाएं

A4 शीट पर पर्यावरण संरक्षण का संदेश देते हुए एक रंगीन पोस्टर बनाएं। उस पर एक प्रेरणादायक नारा (स्लोगन) भी लिखें।

4. प्रिय पुस्तक पर पुस्तक समीक्षा (Book Review)

गर्मी की छुट्टियों में पढ़ी गई अपनी प्रिय हिंदी कहानी/पुस्तक पर 8-10 पंक्तियों की समीक्षा लिखें।

पुस्तक का नाम, लेखक, कहानी का सार, क्या अच्छा लगा, क्या नया सीखा आदि।

5. सत्र-1 , बहुविषयक परियोजना

विषय-संतुलित आहार

- संतुलित आहार का अर्थ
- "संतुलित आहार का महत्व" विषय पर कविता लिखिए।
- संतुलित आहार के घटक
- अपना एक सप्ताह का "संतुलित आहार चार्ट" बनाइए।

5. नीचे दिए गए शब्दों के अर्थ खोज कर लिखिए

1. आश्चर्य	26. समाज	51. समृद्धि	76. रहस्यमय
2. प्रेरणा	27. सारथी	52. सहानुभूति	77. विभिन्नता
3. शब्दजाल	28. संपत्ति	53. दृष्टिकोण	78. आधुनिक
4. साहस	29. समाधान	54. गंभीर	79. समानता
5. रचनात्मकता	30. प्रसिद्ध	55. सहानुभूतिपूर्वक	80. निम्नलिखित
6. दृढ़ता	31. स्वास्थ्य	56. वचनबद्धता	81. अलौकिक
7. संगति	32. काव्य	57. सतत	82. संचार
8. आत्मविश्वास	33. संगठन	58. उत्सव	83. रचनात्मकता
9. संवेदनशील	34. कृतज्ञता	59. संयंत्र	84. संवाद
10. प्रिय	35. साक्षरता	60. प्रसंग	85. आकर्षक
11. सजग	36. मूलाधार	61. जीवंत	86. संवेदनशील
12. प्राकृतिक	37. नयन	62. निर्मल	87. स्पष्ट
13. संकल्प	38. भ्रमण	63. नायिका	88. साक्षात्कार
14. मूल्य	39. मायावी	64. आत्मकथन	89. उद्यम
15. निष्ठावान	40. आकर्षण	65. संगीतमय	90. उपलब्धि
16. आत्मनिर्भरता	41. विवेक	66. विवरण	91. रहस्य
17. विकसित	42. नवाचार	67. अद्वितीय	92. दृष्टिकोण
18. संयम	43. मूल्यांकन	68. आदर्श	93. नूतन
19. समानता	44. समझौता	69. अन्वेषण	94. रचनात्मक
20. संविधान	45. प्रतिभा	70. अधिकार	95. प्रेरित
21. शक्ति	46. प्रभावशाली	71. सुधार	96. संचालित
22. विज्ञान	47. आकर्षक	72. लक्ष्य	97. साहसिक
23. कल्पना	48. चमत्कारी	73. धैर्य	98. मूल्यवान
24. नायक	49. स्वर्णिम	74. सार्थक	99. विजयी
25. भविष्य	50. कुशल	75. ध्वनित	100. मनोहर

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 7
SUBJECT – SCIENCE

1. Key Features and Capabilities of S-400/Sudarshan Chakra Air Defence System

1. *What are the key features and capabilities of the S-400/Sudarshan Chakra air defence system of India?*

2. Benefits and Applications of SATELLITE COMMUNICATION

What are the benefits and applications of satellite communication in various fields, and why are they important in today's modern era?

3. Notable Achievements of ISRO and DRDO

What are some notable achievements of ISRO and DRDO in their respective fields?

4. Helping the Nation in Emergency

As a patriotic citizen of India, how will you help the nation in emergency?

5. Completing Chapters in Science NCERT

Complete the first 3 chapters of science.

Read NCERT, Understand key Terms ..

- *Chapter 1: THE EVER EVOLVING WORLD OF SCIENCE
- *Chapter 2: EXPLORING SUBSTANCES ACIDS, BASICS & NEUTRAL
-
- *Chapter 3: ELECTRICITY CIRCUIT AND COMPONENT

6. Reading Biography of

Read the biography of C V RAMAN & his major contribution.

7. Very Short Questions

1. From which country did India acquire the S-400 air defence system? How many S-400 Defence systems are there in India?*
2. From which country did India acquire the Rafale advanced aircraft?*
3. Who are the most powerful militaries in the world as of 2025?*
4. What is the highest gallantry award in India?*
5. What is Operation Sindoor?*
6. Who controls the defence of India?*
7. Where is POKHRAN atom bomb explosion testing site ??*
8. Who is the Supreme Commander of the Indian Armed Forces?*
9. What is the aim of your life?*
10. Which country has S-500 service with Air Defense Forces?*

REMEMBER:- Solve Q 1,2,3,4 & 7 in SCIENCE NOTE COPY ONLY.
Q 6 & 7 .You have to read, understand.

You can take help from your parents .

SUBJECT – SANSKRIT

1. संस्कृत छात्रप्रतिज्ञायाः प्रार्थनायाः च वाचनस्य पुनः पुनः अभ्यासं कुरुत ।

(संस्कृत छात्रप्रतिज्ञा और प्रार्थना को पुनः पुनः बोलने का अभ्यास करें और याद करें)

2. किम् शब्दस्य रूपाणि त्रिषु लिङ्गेषु लिखत ।

(किम् शब्द के रूप तीनो लिंगों में लिखिए)

3. निम्नलिखित धातुनां रूपाणि लट्, लृट्, लङ् लकारेषु च लिखत - चर्, कृ

(निम्नलिखित धातुओं के रूप लट्, लृट् और लङ् लकार में लिखिए)

4. पञ्चसरलसंस्कृतवाक्येषु स्वस्य परिचयं लिखत ।

(पांच सरल संस्कृत वाक्यों में अपना परिचय लिखिए)

5. 10 पशवः नामानि लिखत ।

(10 जानवरों के नाम लिखो ।

SUBJECT – HINDI

1. संगीत और कला का संयोजन

हिंदी कविता “मां, कहे एक कहानी” को याद करें और इसमें वर्णित कहानी को संवाद रूप में लिखें।

2. हिंदी शब्दों से शब्दों का खेल

कविता मां, कहे एक कहानी में से

कोई दस शब्द चुने और उनपर दस वाक्य बनाओ। फिर उन शब्दों का उपयोग कर एक छोटी सी कहानी लिखें।

3. हिंदी पत्रिका

एक छोटी सी हिंदी पत्रिका बनाए जिसमें कहानी, कविता, चित्रकला, और ग्रीष्मकालीन छुट्टियों के अनुभव आदि शामिल हों।

4. प्रिय पुस्तक पर पुस्तक समीक्षा (Book Review)

गर्मी की छुट्टियों में पढ़ी गई अपनी प्रिय हिंदी कहानी/पुस्तक पर समीक्षा लिखें।

पुस्तक का नाम, लेखक, कहानी का सार, क्या अच्छा लगा, क्या नया सीखा आदि।

5. यदि आपने भी सिद्धार्थ की तरह कभी किसी की मुश्किल समय में सहायता की है तो उस घटना को 50 शब्दों में लिखो।

6. सत्र-1 , बहुविषयक परियोजना

विषय-जल संरक्षण

- जल संरक्षण का अर्थ
- जल संरक्षण की आवश्यकता क्यों है ?
- जल संरक्षण के उपाय
- जल संरक्षण में आप क्या सहयोग करेंगे? 5-6 बिंदुओं में लिखें।

7. नीचे दिए गए शब्दों के अर्थ खोज कर लिखिए

1. आखेटक	26. छायाचित्र	51. भावप्रधान	76. समर्पण
2. चेटी	27. विचारशील	52. हर्षोल्लास	77. दृढ़ता
3. उपवन	28. सजीव	53. शब्दचित्र	78. नृत्यात्मक
4. तात	29. चेतन	54. कल्पनातीत	79. मनमोहक
5. सबेरे	30. रचनाशील	55. स्वप्नदर्शी	80. उत्साही
6. भ्रमण	31. अभिव्यक्ति	56. अभिव्यक्तिपूर्ण	81. गौरवपूर्ण
7. सुरभि	32. संवेदना	57. अनुभवजन्य	82. दृष्टिकोण
8. चिंतन	33. चित्रण	58. प्रेरणादायक	83. जादुई
9. वर्णनात्मक	34. सृजन	59. विचारशील	84. सकारात्मक
10. मंज़र	35. अभिनव	60. नवजीवन	85. प्रेरणादायक
11. अलौकिकता	36. गीतात्मक	61. शुभ्रता	86. दृष्टव्य
12. अविस्मरणीय	37. नाटकीय	62. उदात्त	87. शांति
13. सिंहासन	38. अनुपम	63. शब्दसंग्रह	88. अन्वेषक
14. निश्छल	39. सरगम	64. समर्पण	89. विशेषज्ञ
15. संचरण	40. प्रकाशमान	65. ज्ञानवर्धक	90. समृद्ध
16. तेजस्विता	41. हर्षित	66. प्रकृतिप्रिय	91. ब्रम्हाण्ड
17. शैली	42. भावपूर्ण	67. अंतरदृष्टि	92. नवीनता
18. संवेदनशील	43. रूपवान	68. कृत्रिमता	93. स्मरणीय
19. विशालकाय	44. अद्वितीय	69. ज्ञानदीप	94. काव्यशास्त्र
20. उपमा	45. चपल	70. बुद्धिमत्ता	95. समाजसेवी
21. प्रतीकात्मक	46. निर्मल	71. विश्लेषण	96. आकंक्षित
22. अनुभूति	47. नवोन्मेष	72. स्मृति	97. कृतज्ञता
23. परिकल्पना	48. चिंतनशील	73. संकल्प	98. आकर्षकता
24. रचनाकार	49. विलक्षण	74. उद्यम	99. निडर
25. कल्पनालोक	50. उत्कर्ष	75. प्रयोजन	100. सुरम्य

SUBJECT – MATHS

1. Write 5 examples of comparing numbers, which is greater than ten thousand.
2. Solve all question of chapter 1 (large number around us) till page no. 13.
3. Math in Real Life – Short Paragraph:

Write a paragraph (5-7 lines) on how understanding large numbers helps in real life (e.g., while reading news, handling money, sports scores, etc.)

SUBJECT – ENGLISH

- 1) Read any one story written in your English book and write the summary with moral in your copy?
- 2) Read biographies of any 2 great people and write what you had learned from the any 2 biographies?
- 3) Write 50 daily use sentences which is used in English?
- 4) Write 10 tongue twisters and 2 poems in English?

SUBJECT – SOCIAL SCIENCE

History:

1. Project Work: Prepare a project (5-6 pages) on “The Delhi Sultanate” or “The Mughal Empire”.
 - Include important rulers, administration, architecture, and achievements.
 - Paste pictures or draw monuments like Qutub Minar, Red Fort, etc.
2. Timeline Activity: Create a timeline showing major rulers from the Delhi Sultanate to Mughal emperors.

Geography:

1. Map Work: On a political map of the world:
 - Mark and label the continents and 5 largest rivers of the world
 - Mark the major oceans and any five important Hot and cold deserts of the world (like Sahara, Thar, Ladakh).
- Activity: • Pretend you are a travel blogger visiting a famous landform (like the Himalayas, Sahara Desert, Amazon Rainforest).
- Write a travel diary or make a vlog script describing the place, climate, land, people, and food.

Civics:

1. Poster Making: Design a poster on “Equality and Justice for All”.

2. Survey Project: Quiz Time! Prepare a 10-question quiz on any Social Science topic (history/geography/civics) and challenge your family to play! And write those questions on note copy.

SUBJECT – ART EDUCATION

Class – VII

1. Draw a picture of a **“Flower Pot”** on the table.(Still life)
2. Make a poster. **Topic- “yoga day”**

SUBJECT – ARTIFICIAL INTELLIGENCE

1. Find **5 examples** of how AI is used in daily life (e.g., voice assistants, smart lights, YouTube recommendations).

- Paste or draw pictures
- Write one sentence for each explaining how AI is used

2. Visit the website and play the guessing game with AI - <https://quickdraw.withgoogle.com/>

- A fun AI game by Google where you draw, and the AI guesses.

3. Visit the website <https://studio.code.org/s/oceans/lessons/1/levels/2> play the game Oceans for AI.

- Train AI in identification of fish and run the game.
- Teaches students how AI is trained to clean oceans by recognizing trash.

4. Write all the types of Intelligence and give a example of each in your note copy.

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26

CLASS - 8

SUBJECT – ENGLISH

- 1) Read a novel of your choice and write down the summary of the novel you read?
- 2) Identify difficult and new words in your notebook from your bridge course book of English?
- 3) Write a letter to your friend on the first day of vacation explaining him or her how do you want to spend your vacation?
- 4) Write a paragraph on topic – Information technology .

SUBJECT – SCIENCE

1. Key Features and Capabilities of S-400/Sudarshan Chakra Air Defence System

What are the key features and capabilities of the S-400/Sudarshan Chakra air defence system of India?

2. Benefits and Applications of GPS TECHNOLOGY

What are the benefits and applications of GLOBAL POSITIONING SYSTEM in various fields, and why are they important in today's modern era?

3. Notable Achievements of ISRO and DRDO

What are some notable achievements of ISRO and DRDO in their respective fields?

4. Helping the Nation in Emergency

As a patriotic citizen of India, how will you help the nation in emergency?

5. Completing Chapters in Science NCERT

Complete the first 3 chapters of science:

Read NCERT, Understand key Terms ..

- *Chapter 1: CROP PRODUCTION & MANAGEMENT
- *Chapter 2: MICROORGANISMS ;; FRIEND AND FOE.
-
- *Chapter 3: SYNTHETIC FIBRE AND PLASTIC

6. Reading Biography of

Read the biography of great scientist VIKRAM SARABHAI & his major contribution.

7. Very Short Questions

- a. From which country did India acquire the S-400 air defence system? How many S-400 Defence systems are there in India?*
- b. From which country did India acquire the Rafale advanced aircraft?*

- c. Where is the CHANDIPUR MISSILE TESTING SITE ?*
- d. What is the highest gallantry award in India?*
- e. What is Operation Sindoor?*
- f. *Where is the headquarter of ISRO ?*
- g. Where is POKHRAN atom bomb explosion testing site ??*
- h. Where is the SATISH DHAWAN SPACE CENTRE located?*
- i. What is the aim of your life?*
- j. At present, the Indian Air Force (IAF) operates a total of five AWACS aircraft. What is the full form of AWACS ?*

REMEMBER:- Solve Q 1,2,3,4 &7 in SCIENCE NOTE COPY ONLY.
Q 6 & 7 .You have to read, understand.

You can take help from your parents .

SUBJECT – MATHS

1. Worksheet Practice:

- Complete Bridge Course worksheets on integers, fractions, and decimals.
- Solve 10 daily mental math problems involving operations with integers and decimals.

2. Real Life Math:

- Measure 5 objects at home using a ruler or tape. Write their length in centimeters (cm) and convert to millimeters (mm) and meters (m).
- Prepare a bill for a small grocery list with quantities and prices. Apply a 10% discount and calculate the final amount.

SUBJECT – SOCIAL SCIENCE

History:

Topic: India's Struggle for Independence

- Make a biography file of any one freedom fighter (e.g., Mahatma Gandhi, Bhagat Singh, Subhash Chandra Bose).

Include:

- Early life
- Role in the freedom movement
- Important events and achievements
- Pictures/drawings/posters

Creative Extension: Design a Freedom Movement Timeline showing key events from 1857 to 1947.

Geography:

Topic: Resources and Development

- Prepare a scrapbook on Types of Natural Resources (Renewable and Non-renewable).

Civics:

Topic: The Indian Constitution and Secularism

- Make a colorful poster on the topic: “Why the Indian Constitution is Important?”
- Mention key features like:
 - Fundamental Rights
 - Equality
 - Liberty
 - Justice

Fun Bonus Activities :All activity is compulsory.

1. Interview Project: Interview your grandparents or parents about how life was different in their childhood (education, transport, government services). And write in notes.
2. Quiz Making: Create a 10-question quiz on History, Geography, or Civics. You can use it to play with friends or family! b) Historical Movie Review:
 - Watch any movie or documentary based on history (e.g., Gandhi, Lagaan, Mangal Pandey).
 - Write a short review (what you liked, what you learned — around 10 lines).
3. Map Quest: • Draw the map of India and mark: • 5 major rivers • 5 important cities • 3 mountain ranges

SUBJECT – SANSKRIT

1. संस्कृत छात्रप्रतिज्ञायाः प्रार्थनायाः च वाचनस्य पुनः पुनः अभ्यासं कुरुत ।
(संस्कृत छात्रप्रतिज्ञा और प्रार्थना को पुनः पुनः बोलने का अभ्यास करें और याद करें)
2. अस्मद् शब्दस्य रूपाणिलिखत ।
(अस्मद् शब्द के रूप लिखिए)
3. खाद् धातुनां रूपाणि पञ्चलकारेषु च लिखत ।
(खाद् धातु के रूप पांचों लकारों में लिखिए)
4. दश सरलसंस्कृत वाक्येषु स्वस्य परिचयं लिखत ।
(दश सरल संस्कृत वाक्यों में अपना परिचय लिखिए)
5. वर्तमान काल और भूतकाल के कोई 20 सरल वाक्य लिखिए ।
6. किन्ही 20 शब्दों का वर्ण विच्छेद लिखो ।

SUBJECT – ART EDUCATION

1. Make a picture of “**Bucket and jug**”(still life).
2. Draw a picture of human figure using geometric shapes.

SUBJECT – ARTIFICIAL INTELLIGENCE

1. Watch a kid-friendly video on AI ("*What is Artificial Intelligence?*" by SciShow Kids).

LINK FOR VIDEO - <https://www.youtube.com/watch?v=2ePf9rue1Ao>

Then write a **short paragraph** (5–6 lines) on:

- What you learned
- One cool thing you found
- One question you still have

2. Write a **fun dialogue or short story** imagining you are interviewing a smart device like Alexa or a robot.

Ask 5–6 questions like:

- What do you do all day?
- Do you ever get tired?
- What do you think about humans?

3. Visit the website <https://studio.code.org/s/oceans/lessons/1/levels/2> play the game Oceans for AI.

- Train AI in identification of fish and run the game.
- Teaches students how AI is trained to clean oceans by recognizing trash.

SUBJECT – HINDI

1. शीतल देवी, हरविंदर सिंह, दीपा मलिक, अवनी लेखरा ये पैरा-ओलंपिक से संबन्धित खिलाड़ी है इनके विषय में जानकारी प्राप्त करके लिखिए।
2. यदि आपको पदक जीतने वाले दल से साक्षात्कार का अवसर मिले, तो आप के क्या-क्या प्रश्न होंगे? सूची बनायें।
3. निम्नलिखित शब्दों में से उपसर्ग और प्रत्यय अलग - अलग करके लिखे -
अत्याचारी , अनियमित, अनुशासनिक, दुस्साहसिक, अव्यवस्थित, अकथनीय, अलौकिकता,
असमाजजिक, निर्बलता, प्रचलित
4. पत्र कितने प्रकार के होते हैं। एक औपचारिक पत्र तथा एक अनौपचारिक पत्र लिखिए।

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26

CLASS - 9

SUBJECT – SCIENCE

1. Key Features and Capabilities of S-400/Sudarshan Chakra Air Defence System.

What are the key features and capabilities of the S-400/Sudarshan Chakra air defence system of India?

2. Benefits and Applications of CYBER SECURITY

What are the benefits and applications of CYBER SECURITY in various fields, and why are they important in today's modern era?

3. As Prime Minister of India during wartime, what strategies & primary goal would be to protect the nation's sovereignty, ensure the safety of its citizens, and work towards a swift and decisive resolution to the conflict.

4. COMPLETE 3 CHAPTERS OF SCIENCE

READ , UNDERSTAND

CHAPTER 1 Matter IN SURROUNDINGS

CHAPTER- 2.MOTION

CHAPTER 3.- CELL THE FUNDAMENTAL UNIT OF LIFE

6. Read the biography of great scientist SHANTI SWARUP BHATNAGAR & his major contribution.

7. Very Short Questions

- a) From which country did India acquire the S-400 air defence system?How many S-400 Defence systems are there in India?*
- b) From which country did India acquire the Rafale advanced aircraft?*
- c) Where is the CHANDIPUR MISSILE TESTING SITE ?*
- d) Name a group of 7 satellites that provides Global positioning system (GPS) service in India. It ?*
- e) What is Operation Sindoor?*
- f) RAW ,CIA & MOSAD are the most professional spy agency of which countries ?*
- g) Where is POKHRAN atom bomb explosion testing site ??*
- h) Where is the SATISH DHAWAN SPACE CENTRE located?*
- i) What is the aim of your life?*
- j) Who is CDS currently in India?*

REMEMBER:- Solve Q 1,2,3,4 & 7 in SCIENCE NOTE COPY ONLY. Q 6 & 7 .You have to read, understand. You can take help from your parents .

SUBJECT – MATHS

Chapters: 1 (Number Systems) & 2 (Polynomials)

PART A: Practice Questions

Chapter 1 – Number Systems:

Solve the following:

- Express $\sqrt{5}$ on the number line using geometric method.
- Find 3 rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$.
- Simplify: $(3 + \sqrt{2})(3 - \sqrt{2})$
- Rationalize the denominator: $1 / (\sqrt{5} - \sqrt{3})$

State whether the following are rational or irrational. Justify your answer:

- π
- 0.101001000100001...
- $\sqrt{49}$

Chapter 2 – Polynomials:

- Find the value of the polynomial $p(x) = 2x^2 - 3x + 1$ at: $x = 2$, $x = -1$
- Factorize: $x^2 + 7x + 10$
- Factorize: $x^2 - 16$
- Verify whether $x = 2$ is a zero of the polynomial $f(x) = x^2 - 4x + 4$

- Divide $3x^3 + 5x^2 - x + 2$ by $x + 2$ using the long division method

PART B: Creative Assignment

- Mathematical Art (Number Line Project): Create a colorful number line showing placement of rational and irrational numbers (e.g., $\sqrt{2}$, $\frac{3}{4}$, π , $-\sqrt{5}$) using chart paper or digital tools.
- Polynomial Tree Project: Draw a “Polynomial Tree” on A4 paper. Represent the root (main polynomial), branches (factors), and leaves (zeroes). Include at least two polynomials of degree 2 or 3.

PART C: Application-Based Questions

- Explain how irrational numbers are used in real life (Write a short note of 100–150 words).
- A rectangular garden has length $(3x + 2)$ meters and breadth $(2x - 1)$ meters.
 - Find the area of the garden in terms of x .
 - If $x = 4$, find the actual area.

Submission Instructions:

- Neatly solve all practice questions in your maths notebook.
- Use A4 or colored chart paper for creative tasks.
- Submit the assignment on the first day after holidays.

SUBJECT – ENGLISH

1) Design the first page of your assignment as your portfolio which should have the following details:-

a) Name, class & section b) passport sized photograph c) self introduction in 50 words.

2) Play an outdoor game with family/friends/cousins and write a paragraph sharing your experience in 100 words?

3) Read a book of your choice and write a review including:

a) Title b) Main characters c) Plot d) Theme

4) Paste any two newspaper clippings of ‘editorial section’ and write your review on it?

SUBJECT – SOCIAL SCIENCE

1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)

2. Do Map practice of History and Geography.

3. Complete the check your progress in your notebook. (Page no. 9 Civics textbook)

4. Give some arguments in favour of democracy.

5. Write about any four non-farming activities of the village Palampur.

6. Write about the features of democracy.

7. What were the main causes of the French Revolution? Explain.

8. Write 20 important History dates. (Find out from your History textbook)

9. Prepare a project in a project file on the topic “Disaster Management”. (15-20 A4 size papers)

10. Learn and revise all the completed chapters. (Economics, History and Civ.)

SUBJECT – ARTIFICIAL INTELLIGENCE

1. Make a colorful **poster** about your dream job in AI (e.g., Robot Designer, AI Game Developer). Include:
 - Job Title
 - Key Skills Required
 - Tools or Technologies Used
 - A fun slogan or quote
2. Record a **1-minute video** where you introduce yourself — **as a future AI professional**. Mention:
 - Your name
 - What AI job you do
 - What skills you use daily
 - One thing you love about your job
3. Complete your notes copy upto the chapters taught in class. Solve all the ques/ans given in class.
4. Visit the website <https://studio.code.org/s/oceans/lessons/1/levels/2> play the game Oceans for AI.
 - Train AI in identification of fish and run the game.
 - Teaches students how AI is trained to clean oceans by recognizing trash.

NOTE : Send your video on whatsapp of AI teacher.

SUBJECT – ART EDUCATION

1. Draw some vegetables kept in a basket and colour them.
2. Draw some line art. Like flowers, leaves, birds, animals etc.

SUBJECT – HINDI

1. यात्रा वृत्तांत

ग्रीष्मकालीन अवकाश में की गई यात्रा के बारे में एक यात्रा वृत्तांत लिखें। आप वृत्तांत यात्रा की शुरुआत से लेकर वापसी तक के अनुभवों को शामिल कर सकते हैं।

2. प्रिय पुस्तक पर पुस्तक समीक्षा

गर्मी की छुट्टियों में पढ़ी गई अपनी प्रिय हिंदी कहानी/पुस्तक पर समीक्षा लिखें।

(पुस्तक का नाम, लेखक, कहानी का सार, क्या अच्छा लगा, क्या नया सीखा आदि।)

3. निम्न दो विषयों पर लघुकथा तैयार कीजिए-

- i) मेहनत का फल अच्छा होता है
- ii) ईमानदारी सबसे बड़ा धन है

4. विद्यालय में नई खेल सामग्री मंगवाने हेतु विद्यालय के प्राचार्य महोदय को एक पत्र लिखिए।

5. निम्नलिखित विषयों पर अनुच्छेद लिखिए

- (क) मेरा प्रिय विषय- हिंदी
- (ख) आपके जीवन का लक्ष्य पाने में विद्यालय का योगदान
- (ग) ग्रीष्मावकाश का सदुपयोग कैसे करेंगे

6. अपना पोर्टफोलियो तैयार कीजिए।

KENDRIYA VIDYALAYA PALAMU
SUMMER VACATION HOLIDAY HOMEWORK 2025-26
CLASS - 10

SUBJECT – MATHS

1. For what value of k , is the polynomial $f(x) = 3x^4 - 9x^3 + x^2 + 15x + k$ completely divisible by $3x^2 - 5$?
2. Find a quadratic polynomial whose zeroes are reciprocals of the zeroes of the polynomial $f(x) = ax^2 + bx + c$, $a \neq 0$, $c \neq 0$
3. If the zeroes of the polynomial $x^3 - 3x^2 + x + 1$ are $a - b$, a , $a + b$, then find the value of a and b .
4. Compute the zeroes of the polynomial $4x^2 - 4x - 8$. Also, establish a relationship between the zeroes and coefficients
5. Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$.
6. Write the smallest number which is divisible by both 360 and 657
7. Prove that $\sqrt{5}$ is irrational and hence show that $3 + \sqrt{5}$ is also irrational
8. Three bells toll at intervals of 9, 12, 15 minutes respectively. If they start tolling together, after what time will they next toll together?
9. Three alarm clocks ring at intervals of 4, 12 and 20 minutes respectively. If they start ringing together, after how much time will they next ring together?
10. For what value of k , the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution
11. Check graphically whether the pair of equations $3x - 2y + 2 = 0$ and $3/2x - y + 3 = 0$, is consistent. Also find the coordinates of the points where the graphs of the equations meet the Y-axis.
12. Solve $2x + 3y = 11$ and $2x - 4y = -24$ and hence find the value of ' m ' for which $y = mx + 3$.
13. Find the zeroes of the quadratic polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$
14. If α and β are the zeroes of the polynomial $6y^2 - 7y + 2$, find a quadratic polynomial whose zeroes are $1/\alpha$ and $1/\beta$.
15. If α and β are zeroes of $p(x) = kx^2 + 4x + 4$, such that $\alpha^2 + \beta^2 = 24$, find k .

SUBJECT – ENGLISH

1) Plot summary of the prose "A Triumph of Surgery"?

2) Write a speech on the topic:-

"The importance of time management for students "

a) Why is time important? b) How should students plan their day? c) Benefits of good time management

3) The pie chart illustrates students' preference for various communication methods.

<u>Mode</u>	<u>Percentage</u>
● WhatsApp	40%
● Phone Calls	25%
● Emails	15%
● Social Media Apps	10%
● Face-to-Face	10%

Write an analytical paragraph with the help of above given information ?

4. Create a biographical chart on any author or poet from your syllabus (Robert Frost , William butler yeats etc.) ?

SUBJECT – SOCIAL SCIENCE

1. **Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)**
2. **Do Map practice of History and Geography.**
3. **Explain the difference types of soil in India.**
4. **What are the different forms of power sharing in modern democracies? Give an example of each of these.**
5. **Write the Ethnic composition of Belgium and Sri Lanka.**
6. **Write about the Rio de Janeiro Earth Summit, 1992 and Agenda 21.**
7. **Briefly trace the process of German and Italy unification.**
8. **What steps did the French revolutionaries take to create a sense of collective identity among the French people? Write any five.**
9. **Prepare a project in a project file on the topic “Consumer Rights”.
(15-20 A4 size papers)**
10. **Learn and revise all the completed chapters. (Geography, History and Civics)**

SUBJECT – SCIENCE

SOLVE ALL THE QUESTIONS IN THE SCIENCE NOTE COPY.

LIGHT:-

1. Many optical instruments consists of a number of lenses. They are combined to increase the magnification and sharpness of the image. The net power (P) of the lenses places in contact is given by the algebraic sum of the powers of the individual lenses $P_1, P_2, P_3, \dots$ as

$$P = P_1 + P_2 + P_3 \dots$$

This is also termed as the simple additive property of the power of lens, widely used to design lens systems of cameras, microscopes and telescopes. These lens systems can have a combination of convex lenses and also concave lenses. (2023)

(a) What is the nature (convergent/divergent) of the combination of a convex lens of power +4 D and a concave lens of power -2 D?

(b) Calculate the focal length of a lens of power -2.5 D.

(c) Draw a ray diagram to show the nature and position of an image formed by a convex lens of power +0.1 D, when an object is placed at a distance of 20 cm from its optical centre.

OR

(c) How is a virtual image formed by a convex lens different from that formed by a concave lens? Under what conditions do a convex and a concave lens form virtual image?

2. The ability of medium to refract light is expressed in terms of its optical density. Optical density has a definite connotation. It is not the same as mass density. On comparing two media, the one with the large refractive index is optically denser medium than the other. The other medium with a lower refractive index is optically rarer. Also the speed of light through a given medium is inversely proportional to its optical density. (2023)

i. Determine the speed of light in diamond if the refractive index of diamond with respect to vacuum is 2.42. Speed of light in vacuum is 3×10^8 m/s.

ii. Refractive indices of glass, water and carbon disulphide are 1.5, 1.33 and 1.62 respectively. If a ray of light is incident in these media at the same angle (say θ), then write the increasing order of the angle of refraction in these media.

iii. (A) The speed of light in glass is 2×10^8 m/s and in water is 2.25×10^8 m/s.

(a) Which one of the two is optically denser and why?

(b) A ray of light is incident normally at the water-glass interface when it enters a thick glass container filled with water. What will happen to the path of the ray after entering the glass? Give reason.

OR

(B) The absolute refractive indices of glass and water are $\frac{4}{3}$ and $\frac{3}{2}$, respectively. If the speed of light in glass is 2×10^8 m/s, calculate the speed of light in (i) vacuum (ii) water.

3. Rishi went to a palmist to show his palm. The palmist used a special lens for this purpose.

(i) State the nature of the lens and reason for its use.

(ii) Where should the palmist place/hold the lens so as to have a real and magnified image of an object?

(iii) If the focal length of this lens is 10 cm, the lens is held at a distance of 5 cm from the palm, use lens formula to find the position and size of the image. (2020)

4. An object 4 cm in height, is placed at 15 cm in front of a concave mirror of focal length 10 cm. At what distance from the mirror should a screen be placed to obtain a sharp image of the object. Calculate the height of the image. (2017)

5.a) What is the minimum number of rays required for locating the image formed by a concave mirror for an object? Draw a ray diagram to show the formation of a virtual image by a concave mirror.

(b) The linear magnification produced by a spherical mirror is +3. Analyze this value and state the (i) type of mirror and (ii) position of the object with respect to the pole of the mirror. Draw ray diagram to show the formation of image in this case.

(c) An object is placed at a distance of 30 cm in front of a convex mirror of focal length 15 cm. Write four characteristics of the image formed by the mirror. (2017)

LIFE PROCESSES

1. Case/Source based questions. (4 & 5 Marks) (CBSE 2024)

Human digestive system is a tube running from mouth to anus. Its main function is to breakdown complex molecules present in the food which cannot be absorbed as such into smaller molecules. These molecules are absorbed across the walls of the tube and the absorbed food reaches each and every cell of the body where it is utilised for obtaining energy.

- (a) Name the glands present in the buccal cavity and write the components of food on which the secretion of these glands act upon.
- (b) Two organs have a sphincter muscle at their exit. Name them.
- (c) What will happen if:
- (i) mucus is not secreted by the gastric glands.
 - (ii) Villi are absent in the small intestine.
- OR
- (c) "Bile juice does not contain any enzyme, yet it has important roles in digestion." Justify the statement.

2.: (a) State the role played by the following in the process of digestion: (2020)

- (i) Enzyme trypsin
 - (ii) Enzyme lipase
- (b) List two functions of finger-like projections present in the small intestine

3. Give reasons: (2020)

- (a) Ventricles have thicker muscular walls than atria.
- (b) The transport system in plants is slow.
- (c) Circulation of blood in aquatic vertebrates differs from that in terrestrial vertebrates.
- (d) During the daytime, water and minerals travel faster through the xylem as compared to the night.
- (e) Veins have valves, whereas arteries do not.

4.(A) Write the correct sequence of steps followed during journey of oxygen rich blood from lungs to various organs of human body. (B) What happens when the system of blood vessels develop a leak? (CBSE 2020)

5.(a) Write the function of the following in the human alimentary canal: (CBSE 2019)

- (i) Saliva
 - (ii) HCl in the stomach
 - (iii) Bile juice
 - (iv) Villi
- (b) Write one function for each of the following enzymes:
- (i) Pepsin
 - (ii) Lipase

CHEMICAL REACTION AND EQUATION

1.g of copper powder was taken in a China dish and heated. What change takes place in heating? When hydrogen gas is passed over this heated substance, a visible change is seen in it. Give the chemical equations of reactions, the name and the colour of the products formed in each case. (2020)

2. Lead nitrate solution is added to a test tube containing potassium iodide solution.

- (a) Write the name and colour of the compound precipitated.
- (b) Write the balanced chemical equation for the reaction involved.
- (c) Name the type of this reaction justifying your answer. (2020)

3.7: 2 g of ferrous sulfate crystals are heated in a dry boiling tube. (a) List any two observations. (b) Name the type of chemical reaction taking place. (c) Write a balanced

chemical equation for the reaction and name the products formed. (AI 2019, Board Term 1, 2017, 2016)

4.(A) Design an activity to demonstrate the decomposition reaction of lead nitrate.

(B) Draw a labelled diagram of the experimental set-up. List two main observations.

(C) Write a balanced chemical equation for the reaction stating the physical state of the reactant and the products. (CBSE 2019)

5. Take 3 g of barium hydroxide in a test tube. Now add about 2 g of ammonium chloride and mix the contents with the help of a glass rod. Now touch the test tube from outside.

(i) What do you feel about touching the test tube?

(ii) State the inference about the type of reaction that occurred.

(iii) Write the balanced chemical equation of the reaction involved. (Board Term 1, 2017)

SUBJECT – ARTIFICIAL INTELLIGENCE

1. Design **three posters** showing how different employability skills (e.g., teamwork, communication, problem-solving) are essential in AI-PROJECT CYCLE.

NOTE: Use slogans, AI-themed graphics, or real-world AI job examples.

2. Explore and make a chart of different AI careers. Include how employability skills (communication, self-management, etc.) help in those roles.

3. Prepare your AI Notes with all the Q/A given in class. (*upto chapters taught*)

4. Visit the website <https://studio.code.org/s/oceans/lessons/1/levels/2> play the game Oceans for AI.

- Train AI in identification of fish and run the game.
- Teaches students how AI is trained to clean oceans by recognizing trash.

SUBJECT – HINDI

1. यात्रा वृत्तांत

ग्रीष्मकालीन अवकाश में की गई यात्रा के बारे में एक यात्रा वृत्तांत लिखें। आप वृत्तांत यात्रा की शुरुआत से लेकर वापसी तक के अनुभवों को शामिल कर सकते हैं।

2. प्रिय पुस्तक पर पुस्तक समीक्षा

गर्मी की छुट्टियों में पढ़ी गई अपनी प्रिय हिंदी कहानी/पुस्तक पर समीक्षा लिखें।

(पुस्तक का नाम, लेखक, कहानी का सार, क्या अच्छा लगा, क्या नया सीखा आदि।)

3. निम्न दो विषयों पर विज्ञापन तैयार कीजिए-

i) जल ही जीवन है

ii) मतदान हेतु युवाओं को जागरूक करने हेतु विज्ञापन

4. विद्यालय में नई खेल सामग्री मंगवाने हेतु विद्यालय के प्राचार्य महोदय को एक ईमेल लिखिए।

5. निम्नलिखित विषयों पर अनुच्छेद लिखिए

(क) मेरा प्रिय विषय- हिंदी

(ख) आपके जीवन का लक्ष्य पाने में विद्यालय का योगदान

(ग) ग्रीष्मावकाश सदुपयोग

6. अपना पोर्टफोलियो तैयार कीजिए।

SUBJECT – ART EDUCATION

1. Draw a picture of a “**Book and an Apple**” on the table. (Still life)
2. Make a poster. **Topic- “yoga day”**