

PM SHRI KENDRIYA VIDYALAYA INS KALINGA, BHEEMUNIPATNAM
SUMMER BREAK HOLIDAYS HOME WORK 2026-27

CLASS-3

HINDI:

१. हिंदी वर्णमाला लिखो और याद करोबार १ .
२. इन वर्णों की बारहखड़ी लिखो
थ च , ख , फ , ल ,
३. अपने माँ के बारेमे ५ वाक्या लिख कर फोटो चिपकाओ

TWAU:

TOPIC 1: Our Families & Communities (Interactive learning)

The Family Tree: Create a large poster of your family tree. Include photos and write one "superpower" each person has (e.g., "Grandpa is a great storyteller").

discuss: Talk to an elder in your family. Ask them what games they played when they were in Class 3. Write down 5 sentences about their childhood.

Festival Fun: Draw a picture of your favorite festival and list 3 special foods you eat during that time.

TOPIC 2: Life Around Us – Plants & Animals (writing activities)

Nature Trail: Go for a walk in a park. Collect 5 different types of fallen leaves. Draw them and label their shapes (heart-shaped, long, round).

TOPIC 3: Gifts of Nature – Water & Food (reading activity)

Water Detective: For one day, count how many times your family uses water (drinking, bathing, washing). Write 3 ways you can help save water at home.

TOPIC 4: Things Around Us & Waste (creative expression)

Trash to Treasure: Make a pencil holder or a toy using only "waste" materials like old plastic bottles, cardboard, or newspapers.

*MAKE ANY DISPLAY ITEM FOR THE CLASSROOM OF YOUR CHOICE. (ANY SUBJECT)

MUSIC:

**PLEASE NOTE: ALL STUDENTS OF PRIMARY (CLASS 3rd TO CLASS 5th) AND SECONDARY (CLASS 6th TO CLASS 8th)
ARE TO MAINTAIN NOTES AS INSTRUCTED FROM THEIR RESPECTIVE BANSURE AND KRITI TEXT BOOKS FOR
ARTS**

1. PLEASE MAKE THE CHILD ABLE TO READ / IDENTIFY THE WORDS IN THE LYRICS OF VIDYALAYA PRARDHANA, AND SING IN PROPER TUNE. A VIDEO LINK IS PROVIDED HERWITH FOR REFERENCE.

https://youtu.be/mPI3oAVJilQ?si=t1slkbp5443zNI_I

<https://youtu.be/a3pNjHXcAGY?si=F4qOQEFFJqG7pWRV>

1. PLEASE MAKE THE CHILD ABLE TO SING THE NATIONAL ANTHEM AND NATIONAL SONG IN APPROPRIATE MANNER. VIDEO REFERENCES ARE PROVIDED HEREWITH.

<https://www.youtube.com/watch?v=YSh1V9ycHXU>

https://www.youtube.com/watch?v=-3GwAV_il5c

FULL FORM OF VANDEMATARAM

<https://www.youtube.com/watch?v= 2-GTLcy65M>

2. [LISTEN TO THE COMMUNITY SONGS AND PRACTICE TO SING ALONG:](#)
 3. [THE LYRICS ARE PRINTED IN THE SCHOOL DIARY:](#)
- ❖ [HONGE KAAMYAAB:](#)

<https://www.youtube.com/watch?v=5kBIJPEI9q4>

- ❖ PILLALLARA PAAPALLARA

<https://youtu.be/ud4TC8pKBcU?si=kW37Bj4XQg4F3cwi>

- ❖ SARE JAHAN SE ACCHA

https://youtu.be/F4uC_sh20X8?si=dKareox8WUQgLsD5

- ❖ SARASWATI VANDANA

<https://youtu.be/qgFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

- ❖ HIND DESH KE NIVASI

<https://youtu.be/qgFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

- ❖ JAYA JAN BHARAT

<https://youtu.be/KPJXOSjFOo?si=mcxMLUHO2nsvw88x>

- ❖ BASIC EXERCISES OF CLASSICAL CARNATIC MUSIC:

https://youtu.be/ZLNPJoJ_vHY?si=KON0xbKCgjwy8ilz

ENGLISH:

- 1 Write the importance of trees and paste the pictures of trees.
2. Prepare a poster with the title "green Earth clean Earth" and write a catchy slogan.
3. Write a short story titled "talking tree". What would a tree tell us if it could speak?
4. Write a short rhyming poem on 'friendly plant'.

MATHS:

- Q1. WRITE MULTIPLICATION TABLES FROM 2 TO 20.
- Q2. DRAW A CIRCLE, A TRIANGLE, A SQUARE AND A RECTANGLE.
- Q3. WRITE TALLY MARKS FOR THE FOLLOWING 2 - DIGIT NUMBERS. a) 23 b) 39 c) 15 d) 36 e) 21
- Q4. WRITE NUMBER NAMES FROM 100 TO 200.
- Q5. WRITE FIVE EXAMPLES EACH OF ROUND , CUBE , CONE AND CYLINDER - SHAPED OBJECTS.

HINDI:

निर्देश:

1. पेड़ हमें क्या देते हैं?

इस विषय पर 5 वाक्य लिखें।

2. दिए गए शब्दों से प्रश्नवाचक वाक्य बनाइए –

(1) कौन

(2) क्यों

(3) कब

(4) कैसे

(5) क्या

3. अपना पसंदीदा त्योहार के बारे में 5 वाक्य लिखें तथा चित्र बनाएं।

4. वर्णमाला लिखें।

EVS:

Q1. Draw a map of your street or village and include at least 10 community places.

Q2. Write the names of 28 states and 8 Union Territories of India.

Q3. Draw a plant showing its different parts and label them.

Q4. Write 10 traffic rules.

Q5. Name any 5 festivals celebrated in India and write one line about each.

ENGLISH:

COMPETENCY: Grammar

Read, write and learn the parts of speech given below:

What is a noun? explain it with various examples. Also, write down the different types of nouns?

What is a pronoun? Explain the various forms of pronouns.

Write down the significance of the various type of punctuation marks.

What are “wh” questions.? frame at least five Wh questions.

Competency: Reading & Writing

Read any three novels/ short story books and do a book review on it. Make sure that you must purchase those books and read it. You must be able to present a book review in the class.

Collect any five articles which you find it interesting from any English Newspaper and write a detailed analysis on it. you must also show the proof of those articles.

Competency: writing

Based on your understanding of the poem "Together we can", answer the following questions:

Why do we need to do team work?

What are the various advantages of working together as a team?

What are the various qualities that can be instilled amongst the team members by working together as a team?

Competency: creative writing

How do sports help in shaping our mind and body? Elaborate it? (in One Hundred to One fifty words)

MATHS:

Q1. Write tables from 1 to 20.

Q2. Make any model of your choice using 3D shapes.

Q3. Draw 2D and 3D shapes and write their names. Also write the number of corners, faces and edges of each shape.

Q4. Draw each angle using a protractor: 90° , 120° , 45° , 60° , 30°

Q5. Solve the following:

a) $456 + 789 =$ _____

b) $900 - 478 =$ _____

c) $36 \times 8 =$ _____

d) $144 \div 12 =$ _____ Q

6. Fill in the blanks:

a) 1 metre = _____ cm

b) 1 kg = _____ grams

c) 1 hour = _____ minutes

d) 1 day = _____ hours

Q7. Write the number names:

a) 345 = _____

b) 1,209 = _____

c) 5,060 = _____

Q8. Arrange the numbers:

Ascending Order:

456, 123, 789, 234 = _____

Descending Order:

900, 450, 678, 321 = _____

Q9. Solve the word problems:

a) A shopkeeper has 250 apples. He sold 125 apples. How many apples are left?

b) There are 8 boxes. Each box has 12 pencils. How many pencils are there in total?

Q10. Identify the type of angle:

a) Less than $90^\circ =$ _____ angle

b) Equal to $90^\circ =$ _____ angle

c) More than 90° but less than $180^\circ =$ _____ angle

Q11. Draw and colour the following shapes:

a) Square

b) Triangle

c) Circle

Q12. Skip counting:

a) Write numbers from 2 to 50 by 2s

b) Write numbers from 5 to 100 by 5s

MUSIC:

PLEASE NOTE: ALL STUDENTS OF PRIMARY (CLASS 3rd TO CLASS 5th) AND SECONDARY (CLASS 6TH TO CLASS 8TH) ARE TO MAINTAIN NOTES AS INSTRUCTED FROM THEIR RESPECTIVE BANSURE AND KRITI TEXT BOOKS FOR ARTS

- PLEASE MAKE THE CHILD ABLE TO READ / IDENTIFY THE WORDS IN THE LYRICS OF VIDYALAYA PRARDHANA, AND SING IN PROPER TUNE. A VIDEO LINK IS PROVIDED HER WITH FOR REFERENCE.

https://youtu.be/mPI3oAVJilQ?si=t1slkbp5443zNI_I

<https://youtu.be/a3pNjHXcAGY?si=F4qOQEFFJgG7pWRV>

- PLEASE MAKE THE CHILD ABLE TO SING THE NATIONAL ANTHEM AND NATIONAL SONG IN APPROPRIATE MANNER. VIDEO REFERENCES ARE PROVIDED HERewith.

<https://www.youtube.com/watch?v=YSh1V9ychXU>

https://www.youtube.com/watch?v=-3GwAV_il5c

FULL FORM OF VANDEMATARAM

<https://www.youtube.com/watch?v= 2-GTLcy65M>

- LISTEN TO THE COMMUNITY SONGS AND PRACTICE TO SING ALONG:
- THE LYRICS ARE PRINTED IN THE SCHOOL DIARY:
 - ❖ HONGE KAAMYAAB:

<https://www.youtube.com/watch?v=5kBIJPEI9q4>

- ❖ PILLALLARA PAAPALLARA

<https://youtu.be/ud4TC8pKBcU?si=kW37Bj4XQg4F3cwi>

- ❖ SARE JAHAN SE ACCHA

https://youtu.be/F4uC_sh20X8?si=dKareox8WUQgLsD5

- ❖ SARASWATI VANDANA

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

- ❖ HIND DESH KE NIVASI

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

- ❖ JAYA JAN BHARAT

<https://youtu.be/KPJXOSjFOo?si=mcxMLUHO2nsvw88x>

- ❖ BASIC EXERCISES OF CLASSICAL CARNATIC MUSIC:

https://youtu.be/ZLNPJoJ_vHY?si=KON0xbKCgjwy8ilz

CLASS -5

HINDI:

1. वणमाला एवं सुलेख हदवणमाला लखऔरयादकर। तदनएकपृ सुलेखकाअयासकर।
2. अनुेदलेखन अवकाश के दौरान आप कहाँ गएऔर या कया, इसवषयपर78पं याँ लखए।
3. बारहखड़ी पूरी बारहखड़ी साफ और सुंदर लखए।
4. ाकरणअयास अपनी पा पु तकसे: सं ा सवनाम वशेषण के शदकएक-एकसूचीबनाइए।
5. पठन अयास वाचन मता बढ़ाने के लएरोज़अपनी हदपा पु तकपढ़।
6. परयोजना काय(Project Work) एकछोटा सा ोजे टतैयारकर(जैसे: मेरा परवार / मेरा व ालय / मेरा पसंददा यौहार)।

EVS:

1. How do you prepare for floods? Draw EMERGENCY KIT.
2. Write about balanced diet and draw appropriate pictures.
3. Write about a FREEDOM FIGHTER from your state.
4. What is the importance of playing games? Draw pictures.

ENGLISH:

COMPEPTENCY: GRAMMAR

- A. Read, learn and write down the following parts of speech.
 - a. What is a noun? explain the different types of noun along with their examples.
 - b. What is a pronoun? Explain the different forms of pronouns.
 - c. Explain the various types of punctuation marks. Write at least two examples for each type of punctuation mark.
 - d. List out the different types of prepositions along with their examples.

COMPETENCY: CREATIVE WRITING

If you are in the place of Papa, how will you search for the spectacles? (write in one hundred to one fifty words)

Write a short story which should reflect all the pronouns.

COMPETENCY: READING &WRITING

Read any three novels / short story books and do a book review on it. (you must show the books which you have purchased and read. You be able to present the book review in the class)

Read any English Newspaper and note down at least two new words everyday (from 03/05/26 - 30/05/26) with their meanings. Make a new sentence using those words. Make at least One Hundred new words.

MATHS:

1. Numbers & Place Value:

a) Write any 5-digit number and show its place values.

b) Write the expanded form of: 45,678 90,321

c) Write the number names for any 5 large numbers.

2. Addition & Subtraction:

a) $4,567 + 3,289$

b) $7,531 + 1,369$

c) $9,876 - 2,345$

d) $8983 - 3289$

3. Multiplication & Division: 245×50 23×300 $5,678 \div 4$ $9,45 \div 50$

4. Draw five 2D shapes and five 3D shapes

5. Measure 5 objects at home

1 metre = ___ cm

1 kg = ___ g

1L = ___ ml

1/2 L = ___ ml

MUSIC:

PLEASE NOTE: ALL STUDENTS OF PRIMARY (CLASS 3rd TO CLASS 5th) AND SECONDARY (CLASS 6th TO CLASS 8th) ARE TO MAINTAIN NOTES AS INSTRUCTED FROM THEIR RESPECTIVE BANSURE AND KRITI TEXT BOOKS FOR ARTS

3. PLEASE MAKE THE CHILD ABLE TO READ / IDENTIFY THE WORDS IN THE LYRICS OF VIDYALAYA PRARDHANA, AND SING IN PROPER TUNE. A VIDEO LINK IS PROVIDED HERWITH FOR REFERENCE.

https://youtu.be/mPI3oAVJilQ?si=t1slkbp5443zNI_I

<https://youtu.be/a3pNjHXcAGY?si=F4qOQEFFJqG7pWRV>

7. PLEASE MAKE THE CHILD ABLE TO SING THE NATIONAL ANTHEM AND NATIONAL SONG IN APPROPRIATE MANNER. VIDEO REFERENCES ARE PROVIDED HEREWITH.

<https://www.youtube.com/watch?v=YSh1V9ycHXU>

https://www.youtube.com/watch?v=-3GwAV_iI5c

FULL FORM OF VANDEMATARAM

<https://www.youtube.com/watch?v= 2-GTLcy65M>

8. [LISTEN TO THE COMMUNITY SONGS AND PRACTICE TO SING ALONG:](#)

9. [THE LYRICS ARE PRINTED IN THE SCHOOL DIARY:](#)

❖ [HONGE KAAMYAAB:](#)

<https://www.youtube.com/watch?v=5kBIJPEI9q4>

❖ PILLALLARA PAAPALLARA

<https://youtu.be/ud4TC8pKBcU?si=kW37Bj4XQg4F3cwi>

❖ SARE JAHAN SE ACCHA

https://youtu.be/F4uC_sh20X8?si=dKareox8WUQgLSd5

❖ SARASWATI VANDANA

<https://youtu.be/qgFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

❖ HIND DESH KE NIVASI

<https://youtu.be/qgFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

❖ JAYA JAN BHARAT

<https://youtu.be/KPJXOSjFOo?si=mcxMLUHO2nsvw88x>

❖ BASIC EXERCISES OF CLASSICAL CARNATIC MUSIC:

https://youtu.be/ZLNPJoJ_vHY?si=KON0xbKCgijwy8ilz

CLASS-6

HINDI:

1) 15 पर्यायवाची

२) चित्रं (अमररूक्षं) दृष्ट्वा श्वः लाभं लिखत।

३१ संज्ञाः, सर्वनामानि, विशेषणानि च परिभाषाभिः उदाहरणैः सह ।

दश पुंलिङ्गि 10. स्त्रीलिङ्गशब्दाः 4) .

एक लघुकथा, काव्य (10-वाक्य) दूरदर्शी 51

67 छात्र प्रतिज्ञा, प्रार्थना पत्र

७१ १० विलोमपदम्

८) अपठितखण्डेभ्यः प्रश्नान् कृत्वा उत्तराणि लिखन्तु।

९७ वर्णमाला

ENGLISH:

1.Paragraph Writing (80–100 words): Write a paragraph on any one of the following topics:

"How I Spent My Summer Holidays"

"A Memorable Visit to a Hill Station"

"My Favorite Summer Activity"

2. Story Writing: Create a comic strip based on Chapter 3 "Rama to the Rescue". Draw the scenes and write dialogues in speech bubbles.

3. Grammar & Vocabulary Builder:

Parts of Speech Chart: Create a colorful chart explaining Nouns, Verbs, Adjectives, etc., with examples.

4. Vocabulary Journal: Learn three new words daily, noting their meanings, synonyms, and antonyms

5. Practice identifying tenses, changing sentence types (negative/interrogative), and identifying parts of speech.

6. Book Review: Read a story from Panchatantra or another book and write a short summary (50 words) and mention the moral of the story.

7. Newspaper Activity: Read an English newspaper daily for one week. Note down three major headlines each day in your notebook.

8. Write a letter to the local municipal authority complaining about the broken streetlights in your area.

9. Write a letter to the Principal applying for leave for three days due to illness.

10. Tense Practice: Practice forming sentences in Present, Past, and Future tenses every day to improve sentence structure.

11. Write compound words—including closed and open compound words—daily in your notebook.

12. Read Chapters 3 and 5, and note down any hard words."

MATHS:

1. Write and learn tables from 1 to 20

2. Find the places for each of the digit for the followings

1) 353 2) 254 3) 568

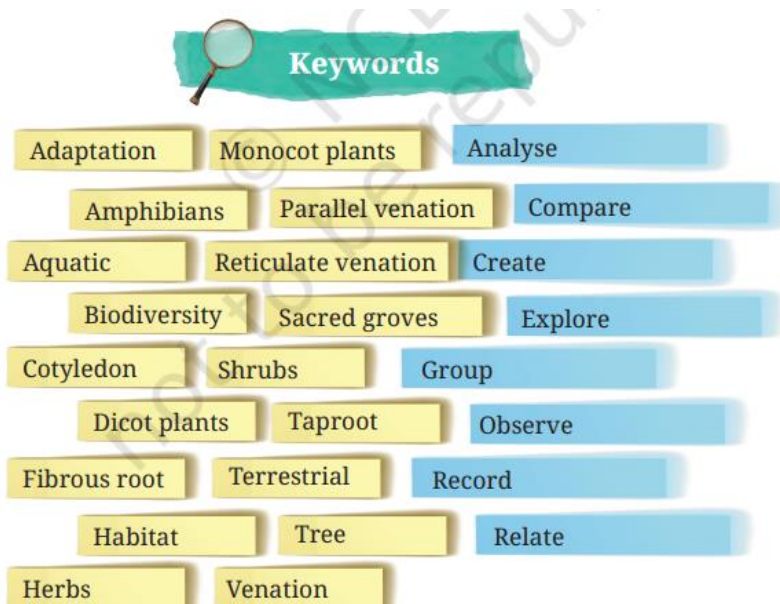
3. Find the place value for each of the digit for the followings

1)3536 2)254 3)568

4. Make the triangular numbers (first 10)
5. Write the types of patterns with examples
6. Write the weight units (Project) (collect the bills)
7. Write the distance units (Project) (collect the tickets)
8. Make any five 2-d and 3-d shapes with card board
9. Write prime numbers up to 50
10. Write triangular and virahanka number(first 10)

SCIENCE:

1. Write the meaning of these key words by referring the text book.



2. 📄 MULTI DISCIPLINARY PROJECT (10 MARKS)

🗨️ “Why is food important for us and how can we choose healthy food in our daily life?”

📄 Section A: Understanding Food (Science)

Questions:

1. What are the different types of nutrients in food?
2. Name two foods that give us energy.
3. What is a balanced diet? Why do we need it?

Suggested Activity:

- 📄 Paste or draw pictures of foods and group them as:
 - Energy-giving
 - Body-building
 - Protective

SOCIAL:

1. Write the following answers related to Globe:-

- The total number of longitude are----
- The total number of latitudes are –
- The value of the prime meridian is –
- The Antarctic circle is located in which hemisphere—
- Arctic circle is located in which hemisphere—
- Tropic of cancer is located at ---
- Tropic of Capricorn is located at ---
- On Globe ,the 0 degree latitude is known as—

2. Draw a colorful chart of the solar system in your notebook .

3. Paste a political map of India in your notebook and locate and label all the states and union territories along with

neighbouring countries.

4. Learn and revies the notes of completed chapters.

SANSKRIT:

पशवः, शरीरस्य अङ्गाः, परिवारस्य सदस्यानां विवरणं, शाकाः, पशवः

LD- पाठ-1 तथा

पाठ-2 के LD लिखत

MUSIC:

PLEASE NOTE: ALL STUDENTS OF PRIMARY (CLASS 3rd TO CLASS 5th) AND SECONDARY (CLASS 6TH TO CLASS 8TH) ARE TO MAINTAIN NOTES AS INSTRUCTED FROM THEIR RESPECTIVE BANSURE AND KRITI TEXT BOOKS FOR ARTS

- PLEASE MAKE THE CHILD ABLE TO READ / IDENTIFY THE WORDS IN THE LYRICS OF VIDYALAYA PRARDHANA, AND SING IN PROPER TUNE. A VIDEO LINK IS PROVIDED HERWITH FOR REFERENCE.

https://youtu.be/mPI3oAVJilQ?si=t1slkbp5443zNI_I

<https://youtu.be/a3pNjHXcAGY?si=F4qOQEFFJqG7pWRV>

- PLEASE MAKE THE CHILD ABLE TO SING THE NATIONAL ANTHEM AND NATIONAL SONG IN APPROPRIATE MANNER. VIDEO REFERENCES ARE PROVIDED HEREWITH.

<https://www.youtube.com/watch?v=YSh1V9ycHXU>

https://www.youtube.com/watch?v=-3GwAV_il5c

FULL FORM OF VANDEMATARAM

<https://www.youtube.com/watch?v= 2-GTLcy65M>

11. LISTEN TO THE COMMUNITY SONGS AND PRACTICE TO SING ALONG:

12. THE LYRICS ARE PRINTED IN THE SCHOOL DIARY:

❖ HONGE KAAMYAAB:

<https://www.youtube.com/watch?v=5kBIJPEI9q4>

❖ PILLALLARA PAAPALLARA

<https://youtu.be/ud4TC8pKBcU?si=kW37Bj4XQg4F3cwi>

❖ SARE JAHAN SE ACCHA

https://youtu.be/F4uC_sh20X8?si=dKareox8WUQgLsD5

❖ SARASWATI VANDANA

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

❖ HIND DESH KE NIVASI

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

❖ JAYA JAN BHARAT

<https://youtu.be/KPJXOSjFOo?si=mcxMLUHO2nsvw88x>

❖ BASIC EXERCISES OF CLASSICAL CARNATIC MUSIC:

https://youtu.be/ZLNPJoJ_vHY?si=KON0xbKCgjwy8ilz

FOR CLASSES VI AND ABOVE:

PREPARE MODELS OF MUSICAL INSTRUMENTS:

LIBRARY:

All students have been provided with the magazine “Magic Pot” in school.

Instructions:

1. Read the stories from the magazine.
2. Select any 2 stories and write them in your notebook or on A4 sheets.
3. You may copy and write the stories from the magazine.
4. Add neat drawings related to the stories.
5. Maintain good handwriting and proper presentation.

ARTIFICIAL INTELLIGENCE:

1. What is Algorithm ? What is the purpose of it ?
2. What is flow chart ? explain different shapes in the flow chart.
3. what are

CLASS-7

ENGLISH:

1. Read Chapter "**The Day the River Spoke**" identify and write down the phrasal verbs used in the chapter.

2. Write a diary entry of (150 words) from Jahnavi's perspective, describing her interaction with the river.

Grammar Focus: Highlight all adjectives used in your entry to describe nature (e.g., sparkling, silent, turbulent).

3. Read Chapter 2. "**Try Again**" (Poem) and focus on metaphorical language.

4. Identify 3 metaphors and 3 similes from any poem and explain their meaning in your own words.

5. Read English newspaper for daily Cut out and paste 5 sentences that use Articles (a, an, the) correctly.

6. Read "**Say the Right Thing**".

Create a poster on an A4 sheet listing 5 polite phrases to use when hosting guests.

7. Letter Writing: Informal: Write a letter to a friend describing a winter camp or a fun activity you did during the break.

8. Formal: Write a letter to the editor regarding local environmental concerns (e.g., pollution, waste management) in your area.

9. Vocabulary Journal: Learn three new words daily from news paper their meanings, synonyms, and antonyms.

MATHS:

1. Write and learn tables from 1 to 20

2. Find the places for each of the digit for the followings

1)258 2)952 3)458

3. Find the place value for each of the digit for the followings

1)258 2)952 3)458

4. Write common factors of 36 and 24, 48 and 42

5. Find the L.C.M, 12 and 18 18 and 24 14 and 18
5. Find the H.C.F, 12 and 18 18 and 24 14 and 18
7. Write first 10 square and cube numbers
8. Make any five 2-d and 3-d shapes
9. Write prime numbers up to 100
10. Draw the pie chart related to population in India (Project)

SCIENCE:


Activity-1

Test for Starch in Leaves

Aim:

To show that leaves contain starch.

Materials Required:

- Green leaf 
- Hot water
- Alcohol
- Iodine solution

Procedure:

1. Boil the leaf in water.
2. Then boil it in alcohol (removes green color).
3. Wash the leaf in warm water.
4. Add iodine solution.

Observation:

Leaf turns blue-black.

Conclusion:

Starch is present in leaves → proves Photosynthesis.

Activity – 2

Types of Nutrition in Plants

Draw and label examples of:

- Autotrophic (green plants)
- Parasitic (like Cuscuta)
- Insectivorous (like Pitcher plant)

Activity - 3

Model of Human Digestive System

Make a diagram or model showing:

- Mouth
- Esophagus
- Stomach
- Small intestine
- Large intestine

👉 Label all parts of the Human digestive system

Activity – 4

Digestion of Starch

Aim:

To show digestion starts in the mouth.

Procedure:

1. Take a piece of bread 🍞
2. Chew it for a long time

Observation:

It becomes slightly sweet.

Conclusion:

Saliva breaks starch into sugar → digestion begins in mouth.

📄 How to Submit

Write neatly in this format:

- Title
 - Aim
 - Materials
 - Procedure
 - Observation
 - Conclusion
 - Diagram (important!)
-

SOCIAL:

1. Write and learn the explanation of all fundamental rights.

2. Paste a political map of India in your notebook and locate and label all the states and union territories along with

neighbouring countries.

3. Explain and learn all the physiographic divisions of India.

4. Explain in detail about your 2 favourite Mahjanapadas.
5. On outline map of world locate and label all continents and oceans.
6. Learn and revise the completed chapters.

HINDI:

1)संवादः

2) संज्ञा (परिभाषा), सर्वनाम, विशेषण के प्रकार उदाहरण सहित

3)द्वौ अनुच्छेदौ

4) चित्रं दृष्ट्वा (आम्रफलम्) १० वाक्यानि

5)अपठितखण्डाः

6) एक कथा, काव्य (आसमन)

7) विरामचिह्नानां उपयोगेन वाक्यस्य निर्माणम्

SANSKRIT:

अस्माकं विद्यालयस्य, गृहस्य, वर्गस्य, प्रकृतिस्य, संस्कृतस्य विषये दशैकैकं वाक्यं सरलसंस्कृतेन लिखामः।

MUSIC:

PLEASE NOTE: ALL STUDENTS OF PRIMARY (CLASS 3rd TO CLASS 5th) AND SECONDARY (CLASS 6th TO CLASS 8th) ARE TO MAINTAIN NOTES AS INSTRUCTED FROM THEIR RESPECTIVE BANSURE AND KRITI TEXT BOOKS FOR ARTS

5. PLEASE MAKE THE CHILD ABLE TO READ / IDENTIFY THE WORDS IN THE LYRICS OF VIDYALAYA PRARDHANA, AND SING IN PROPER TUNE. A VIDEO LINK IS PROVIDED HERWITH FOR REFERENCE.

https://youtu.be/mPI3oAVJilQ?si=t1slkbp5443zNI_I

<https://youtu.be/a3pNjHXcAGY?si=F4qOQEFFJqG7pWRV>

13. PLEASE MAKE THE CHILD ABLE TO SING THE NATIONAL ANTHEM AND NATIONAL SONG IN APPROPRIATE MANNER. VIDEO REFERENCES ARE PROVIDED HEREWITH.

<https://www.youtube.com/watch?v=YSh1V9ycHXU>

https://www.youtube.com/watch?v=-3GwAV_il5c

FULL FORM OF VANDEMATARAM

<https://www.youtube.com/watch?v=2-GTLcy65M>

14. [LISTEN TO THE COMMUNITY SONGS AND PRACTICE TO SING ALONG:](#)

15. [THE LYRICS ARE PRINTED IN THE SCHOOL DIARY:](#)

❖ [HONGE KAAMYAAB:](#)

<https://www.youtube.com/watch?v=5kBIJPEI9q4>

❖ PILLALLARA PAAPALLARA

<https://youtu.be/ud4TC8pKBcU?si=kW37Bj4XQg4F3cwi>

❖ SARE JAHAN SE ACCHA

https://youtu.be/F4uC_sh20X8?si=dKareox8WUQgLsD5

❖ SARASWATI VANDANA

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

❖ HIND DESH KE NIVASI

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

❖ JAYA JAN BHARAT

<https://youtu.be/KPJXOSjFOo?si=mcxMLUHO2nsvw88x>

❖ BASIC EXERCISES OF CLASSICAL CARNATIC MUSIC:

https://youtu.be/ZLNPJoJ_vHY?si=KON0xbKCgjwy8ilz

FOR CLASSES VI AND ABOVE:

PREPARE MODELS OF MUSICAL INSTRUMENTS:

LIBRARY:

All students have been provided with the magazine “**Champak**” in school.

Instructions:

1. Read **at least 3 stories** from the magazine carefully.
2. Select **any 2 stories** and write their summaries.
3. Each summary should be written **in your own words** (about 8–10 lines).
4. Mention the **title of the story** before writing the summary.
5. Write neatly in your notebook or on A4 sheets.
6. Maintain **proper handwriting, margins, and presentation.**
7. You may add **small drawings related to the story**

CLASS-8

HINDI:

- 1कार्य को अपनी आभ्यास पुस्तिका (notebook) में कीजिए।
- 2कार्य को सुंदर और साफ लेखें ।

सृजनात्मक लेखन

- आपने ग्रीष्मावकाश कैसे बिताया इस विषय पर 120 शब्दों में अनुच्छेद लिखें।
- अपने मन से किसी भी विषय पर एक छोटी कहानी लिखने का प्रयास करें।
- मेरे देश की विविधताएं विषय पर 150 शब्दों में अनुच्छेद लिखें। चित्रों के साथ पत्र लेखन।
- रोजाना एक पृष्ठ सुलेख लिखिए ।

पत्र लेखन

- किसी आवश्यक कार्य हेतु आपको पांच दिन का अवकाश चाहिए। इसकी प्रार्थना करते हुए अपने विद्यालय के प्राचार्य को पत्र लिखें।
- समय का महत्त्व बताते हुए अपने मित्र को पत्र लिखें।

व्याकरण

- विशेषण और उसके भेदों का उदाहरण सहित याद करे व लिखे।
- क्रिया और उसके भेदों का उदाहरण सहित याद करे व लिखे।
- संज्ञा और उसके भेदों का उदाहरण याद करे व लिखे।
- सर्वनाम और उसके भेदों का उदाहरण याद करे व लिखे।

पठन

- रोजाना पृष्ठ हिन्दी की पाठ्यपुस्तिका पढ़ें और हर पढ़े पाठ का सार लेखें 2(summary in keypoints)।
- रोजाना अखबार पढ़ें और देश विदेश की खबरों से आवगत रहे ।

ENGLISH:

1.Diary Entry: Write a diary entry on a memorable day of the vacation.

2.Story/Article: Write a story (150-200 words) based on an outline or an article on a topic like "The Importance of Protecting our Environment".

3.Letter Writing: Informal: Write a letter to a friend describing a winter camp or a fun activity you did during the break.

4.Formal: Write a letter to the editor regarding local environmental concerns (e.g., pollution, waste management) in your area.

5.Project Work: Travelogue: Create a travelogue on a place visited or a dream destination (A3 sheet) including historical facts, food, and photos.

6. Newspaper Activity: Read an English newspaper daily for one week. Note down three major headlines each day in your notebook.

7. Vocabulary Journal: Learn three new words daily from news paper their meanings, synonyms, and antonyms.

8. Write an article on "The Advantages of Reading Newspapers."

9. Practice daily: Tenses, Reported Speech, and Active voice and Passive voice

MATHS:

1. Write and learn tables from 1 to 20

2. Find the places for each of the digit for the followings

1)258 2)952 3)458

3. Find the place value for each of the digit for the followings

1)258 2)952 3)458

4. Draw the pie chart related to population in India (Project)

5. Find the L.C.M, 24 and 28 32 and 36 42 and 44

6. Find the H.C.F, 24 and 28 32 and 36 42 and 44

7. Write first 20 square and cube numbers

8. Make any five 2-d and 3-d shapes with card boards

9. Write prime numbers up to 100

10. Check the followings are perfect square or perfect cube or both

729 216 64 625

SCIENCE:

Draw all the diagrams with labelling of parts in chapter 2 and 3

SOCIAL :

1. Explain in detail about various type of resources.

2. Write in detail about your favourite ruler from Delhi Sultanate.

3. Explain the the concept of restoration and regeneration.

4. Learn and revise the completed chapters.

5. Paste a political map of India in your notebook and locate and label all the states and union territories along

with neighbouring countries.

6. Explain and write all 6 Fundamental Rights in detail.

SANSKRIT:

SEA-25 (पञ्चविंशतिः) संस्कृतसुभाषितं लिखित्वा तस्य दशवाक्यानि हिन्दीभाषायां सरलसंस्कृतेन लिखत।

सप्ततः पञ्चाशत्पर्यन्तं संस्कृतसङ्ख्यां लिखत

MUSIC:

PLEASE NOTE: ALL STUDENTS OF PRIMARY (CLASS 3rd TO CLASS 5th) AND SECONDARY (CLASS 6TH TO CLASS 8TH) ARE TO MAINTAIN NOTES AS INSTRUCTED FROM THEIR RESPECTIVE BANSURE AND KRITI TEXT BOOKS FOR ARTS

6. PLEASE MAKE THE CHILD ABLE TO READ / IDENTIFY THE WORDS IN THE LYRICS OF VIDYALAYA PRARDHANA, AND SING IN PROPER TUNE. A VIDEO LINK IS PROVIDED HERWITH FOR REFERENCE.

https://youtu.be/mPI3oAVJilQ?si=t1slkbp5443zNI_I

<https://youtu.be/a3pNjHXcAGY?si=F4gOQEFFJqG7pWRV>

16. PLEASE MAKE THE CHILD ABLE TO SING THE NATIONAL ANTHEM AND NATIONAL SONG IN APPROPRIATE MANNER. VIDEO REFERENCES ARE PROVIDED HEREWITH.

<https://www.youtube.com/watch?v=YSh1V9ycHXU>

https://www.youtube.com/watch?v=-3GwAV_il5c

FULL FORM OF VANDEMATARAM

<https://www.youtube.com/watch?v= 2-GTLcy65M>

17. [LISTEN TO THE COMMUNITY SONGS AND PRACTICE TO SING ALONG:](#)

18. [THE LYRICS ARE PRINTED IN THE SCHOOL DIARY:](#)

- ❖ [HONGE KAAMYAAB:](#)

<https://www.youtube.com/watch?v=5kBIJPEI9q4>

- ❖ PILLALLARA PAAPALLARA

<https://youtu.be/ud4TC8pKBcU?si=kW37Bj4XQg4F3cwi>

- ❖ SARE JAHAN SE ACCHA

https://youtu.be/F4uC_sh20X8?si=dKareox8WUQgLSd5

- ❖ SARASWATI VANDANA

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

- ❖ HIND DESH KE NIVASI

<https://youtu.be/qqFN-IEFSjY?si=jp-NXGw6Jizlw6Lx>

- ❖ JAYA JAN BHARAT

<https://youtu.be/KPJIXOSjFOo?si=mcxMLUHO2nsvw88x>

- ❖ BASIC EXERCISES OF CLASSICAL CARNATIC MUSIC:

https://youtu.be/ZLNPJoJ_vHY?si=KON0xbKCgijwy8ilz

FOR CLASSES VI AND ABOVE:

PREPARE MODELS OF MUSICAL INSTRUMENTS:

LIBRARY:

All students have already been provided with the magazines “Tell Me Why” and ‘The Children Magazine” in school.

Instructions:

1. Read the entire magazine carefully during the holidays.
2. After reading, write **at least 15 points(tell me why) or two stories(Children’s Magazine)** from the magazine.
3. Write neatly in your notebook or on A4 sheets.
4. Use **proper numbering** and clear headings wherever required.
5. Maintain **good handwriting and presentation.**
6. You may add **relevant drawings or pictures** (optional).

CLASS-9

HINDI:

1कार्य को अपनी आभ्यास पुस्तिका (notebook) मे कीजिए।

2कार्य को सुंदर और साफ लेखे ।

सृजनात्मक लेखन

- दो बैलों की कथा का सारांश लगभग 60 शब्दों में लिखिए ।
- ग्रामीण व शहरी वातावरण में क्या अंतर है। दोनों में से कौन सा वातावरण आपके मन को भाता है और क्यों ?
- स्वच्छ भारत अभियान विषय पर 100 शब्दों में एक अनुच्छेद लिखिए ।
- रोजाना एक पृष्ठ सुलेख लिखिए ।

पत्र लेखन

- अपने क्षेत्र में साफ सफाई करने के लिए नगर नगम अधिकारी को पत्र लिखिए।
- समय का महत्त्व बताते हुए अपने मित्र को पत्र लिखें।

व्याकरण

- कारक की परिभाषा व प्रकार लिखिए ।
- उपसर्ग तथा प्रत्यय की परिभाषा लिखिए तथा उनके 10-10 उदाहरण भी लिखिए ।

पठन

- रोजाना पृष्ठ हिन्दी की पाठ्यपुस्तिका पढ़े और हर पढ़े पाठ का सार लेखे 2(summary in keypoints)।
- रोजाना अखबार पढ़े और देश विदेश की खबरों से आवगत रहे ।

ENGLISH:

1.Literature & Writing:Write a diary entry detailing a scene from Chapter 1 ('How I Taught My Grandmother to Read') from the grandmother's perspective.

2.Vocabulary in Context: List 10 new words from the first three chapters of **Kaveri** with their meanings and usage in sentences.

3.Creative Writing: Write an article (150-200 words) on a topic such as "The Power of Education" **4.Editing/Omission Tasks:** Take a newspaper article and create an "editing" exercise (spotting errors) and an "omission" exercise (filling in missing words) for 10 sentence every day.

5.Letter to the Editor: Write a formal letter (120-150 words) regarding a local issue like water scarcity or poor road conditions, offering practical suggestions.

6.Ensure daily newspaper reading to collect three new words along with their meanings.

7.Social Awareness Campaign: Create a newsletter or blog post regarding a local civic issue (like water scarcity or road safety), offering practical

8.Create a biography or documentary report on a real-life personality who overcame obstacles to gain an education, inspired by Sudha Murty's **How I Taught My Grandmother to Read.**

9.Practice daily: Tenses, Reported speech, and active voice.

10.Write a biographical sketch of any author or poet whom you like very much."

MATHS:

1. Write and learn tables from 1 to 20

2. Locate the following points on XY-PLANE


P (2, 3) Q (4, 6) R (3, 6) S (6, 12)

3. Find the place value for each of the digit for the followings
1)258 2)952 3)458
4. Draw the pie chart related to population in India (Project)
5. Find the L.C.M, 24 and 28 32 and 36 42 and 44
6. Find the H.C.F, 24 and 28 32 and 36 42 and 44
7. Write first 20 square and cube numbers
8. Make the Cartesian plane with card board
9. Write prime numbers up to 100
10. Find the distance between following points on XY-PLANE
A. P(2,3) Q(4,6) B. P(3,6) Q(6,12)

SCIENCE:

Biology:

Creative Expression

 1. Draw and label:

i) Plant Cell

ii) Animal Cell

(Use colors and label all important parts neatly.)

2. Write the differences **showing plant vs animal cell**

Writing Activity

 Write a short paragraph (80–100 words):

 “Why Cells Are Important for Living Things”

3. Write the differences between prokaryotic and eukaryotic cell.

4. Write about a scientist involved in cell biology.

5. What is Limit of Resolution and magnification?

6. Read the bridge course material.

Chemistry:

Activity 1: States of Matter

Aim:

To study the three states of matter.

Materials:

Ice ☐, water ●, bowl, heat source

Procedure:

1. Take ice in a bowl.
2. Observe it (solid).
3. Let it melt into water (liquid).
4. Heat water to form steam (gas).

Observation:

- Ice → fixed shape (solid)
- Water → flows (liquid)
- Steam → spreads (gas)

Conclusion:

Matter exists in three states and changes with temperature (related to Change of state)

Activity 2: Effect of Temperature

Aim:

To show heating causes expansion.

Example:

Heat air in a balloon — it expands ●

Conclusion:

Particles move faster on heating.

Activity 3: Separation of Mixture

Aim:

To separate sand and water.

Materials:

Sand, water, filter paper

Procedure:

1. Mix sand in water.
2. Filter the mixture.

Observation:

- Sand stays on filter paper
- Water passes through

Conclusion:

This method is called Filtration

Activity 4: True Solution, Colloid, Suspension

Type	Example	Property
True Solution	Salt in water	Clear
Colloid	Milk ☐	Scatters light
Suspension	Muddy water	Particles settle

☞ Related concept: Tyndall effect

Activity 5: Evaporation

Aim:

To show evaporation separates substances.

Example:

Salt + water → leave in sun ☀ ☐ → water evaporates → salt remains

☞ Concept: Evaporation

 **Presentation Tips**

- Use **blue/black pen for writing**
- Draw **neat diagrams**
- Underline headings
- Add **daily life examples**
- Keep it clean and well-organized

PHYSICS:

- 1) Derive the equation of motion
- 2) Define uniform motion and Non uniform motion
- 3) Define acceleration, write its units
- 4) What are Scalar and Vector quantities.

SOCIAL:

1. Make a project on any one of the following disaster management topic.

(a) drought

(b) cyclone

(c) land degradation

(d) Flood

(Do this in a project file,15-16 pages on A4 sheets.)

2. Explain the functions of Election commission of India.

3. Explain in detail the differences between the two houses of Parliament.

4. Write and learn the explanation of all fundamental rights.

6. Paste India's political map in your notebook and locate and label all states and union territories in it, practice the

same atleast 5 times.

SANSKRIT:

SEA - एकअक्षरीपूर्णवाक्येषु अपठितं अंशं लिखत। भाषाकार्यप्रश्ना उत्तराणि च।

संवादं लिखित्वा रिक्तस्थानानि पूरयन्तु

LIBRARY:

Indian Authors and Their Works

Instructions to Students

You are given a list of 6 Indian authors.

Select any 3 authors from the list.

For each author, collect information and present it neatly in your notebook or on A4 sheets.

Follow the given format for each author.

Write in your own words (avoid copying directly).

Maintain neat handwriting and proper headings.

You may add pictures of the author or book covers (optional but encouraged).

List of Authors (Choose Any 3)

1. Rabindranath Tagore
2. R. K. Narayan
3. Munshi Premchand
4. Ruskin Bond
5. Sudha Murty

Format to Follow (For Each Author)

7. 1. Name of the Author:
2. Date of Birth:
3. Place of Birth:
4. Short Biography (5–6 sentences):
(Include early life, education, and achievements)
 8. 5. Famous Works:
 9. Book 1
 10. Book 2
 11. Book 3 etc
 12. 6. Summary of One Work (5–6 lines):
(Write about any one famous book of the author)
 13. 7. Awards/Recognitions:
(If any)
8. Your Opinion:
(2–3 lines about what you learned or liked)

CLASS-10

HINDI:

- 1 कार्य को अपनी आभ्यास पुस्तिका (notebook) में कीजिए।
- 2 कार्य को सुंदर और साफ़ लेखें।

सृजनात्मक लेखन

- सूरदास के किसी एक पद की व्याख्या लिखिए।
- नेताजी का चश्मा पाठ का सारांश लगभग 100 शब्दों में लिखिए।
- आपने भी आपने आस पास किसी स्वतंत्रता सेनानी की प्रतिमा देखी होगी, किन्हीं दो के बारे में लिखिए।
- मेरी प्रिय पुस्तक अथवा मेक इन इंडिया विषय पर लगभग 120 शब्दों में एक अनुच्छेद लिखिए।

पत्र लेखन

- अपने क्षेत्र में साफ़ सफाई करने के लिए नगर नगम अधिकारी को पत्र लिखिए।
- पछले कुछ दिनों से आपके क्षेत्र में अपराध बढ़ने लगे हैं। उनकी रोकथाम के लिए थाना अध्यक्ष को अपनी ओर से एक पत्र लिखिए।

व्याकरण

- 4. सरल, संयुक्त तथा मिश्र वाक्य के पांच पांच उदाहरण ।

पठन

- रोजाना पृष्ठ हिन्दी की पाठ्यपुस्तिका पढ़े और हर पढ़े पाठ का सार लेखें 2(summary in keypoints)।
- रोजाना अखबार पढ़ें और देश विदेश की खबरों से आवगत रहें ।

ENGLISH:

1. Read 4 unseen and un solved passages and write answers
2. Solve 4 Case based un comprehension passages.
3. Write 2 letters to the editor of any news papers.
 - A. About increasing pollution and its impact on people.
 - B. About road rage in cities and measures to taken.
4. Write to the manager SS electronics placing order to supply electronic it's such fans tube lights. ACs ,and computers for you school.
5. Write a letter to Jyothi book depot asking yo supply some reference books to class X and xii cbse on every subject.
6. You have purchased LG washing machine one mint back but it stopped working after a month. Since you have 5 years warranty. Write a complaint letter asking them to replace it.
7. Write an article on the following.
 - Need of wild life conservation.
 - Need for improvement of literacy.
8. Read any book written by aDr APJ Abdul Kalam and pick up good and useful words
Write book review on it.

MATHS:

1. 4 Bells toll together at 9.00 am. They toll after 7, 8, 11 and 12 seconds respectively. How many times will they toll together again in the next 3 hours?
2. Given that $\sqrt{3}$ is irrational, prove that $(2 + 5\sqrt{3})$ is an irrational number.
3. Prove that $\sqrt{5}$ is an irrational number
4. Find the HCF of 144 and 198 by prime factorization.
5. Given that $HCF(306, 657) = 9$, find $LCM(306, 657)$
6. If one Zero of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of a
7. Find the zeros of the following polynomial $6x^2 - 3 - 7x$ and verify the relation between the zeroes and the coefficients
8. Draw the graph of the equation $x - y + 1 = 0$ and $3x + 2y - 12 = 0$. Determine the coordinates of the vertices of the triangle formed by these lines and the x-axis
9. Determine the value of k so that the following pairs of equations are inconsist $(3K + 1)x + 3y - 2$

$$= 0, (K^2+1)x + (K-2)y - 5 = 0$$

10. Determine the values of a and b for which the following system of linear equations has infinite solutions: $2x - (a - 4)y = 2b + 1$; $4x - (a - 1)y = 5b - 1$
11. A man wished to give Rs. 12 to each person and found that he fell short of Rs. 6 when he wanted to give to all the persons present. He, therefore, distributed Rs. 9 to each person and found that Rs. 9 were left over. How much money did he have and how many persons were there?
12. A father's age is three times the sum of the ages of his children. After 5 years, his age will be two times the sum of their ages. Find the present age of the father
13. Meena went to a bank to withdraw ₹2000. She asked the cashier to give her ₹50 and ₹100 notes only. Meena got 25 notes in all. Find how many notes of ₹50 and ₹100 she received
14. Solve the following pairs of equations: $37x + 43y = 123$, $43x + 37y = 117$
15. Prove that $\sqrt{3} + \sqrt{7}$ is irrational
16. If α and β are the zeroes of the quadratic polynomial $P(x) = 4x^2 - 5x + 1$, Find the value of $\alpha^2\beta + \alpha\beta^2$.
17. If α and β are the zeros of the polynomial $3x^2 + 5x + k$ such that $\alpha^2 + \beta^2 + \alpha\beta = \frac{19}{9}$, Then find the value of k
18. Solve the following system of linear equations graphically and shade the region between the two lines and x - axis $3x + 2y - 4 = 0$, $2x - 3y - 7 = 0$
19. The sum of a two digit number and the number formed by interchanging its digits is 110. If 10 is subtracted from the original number, the new number is 4 more than 5 times the sum of the digits in the first number. Find the original number
20. If α and β are the zeros of the polynomial $f(x) = x^2 - 5x + k$ such that $\alpha - \beta = 1$, find the value of k

SCIENCE:

Chemistry:

CHEMISTRY

1. Very Short Answer (1 mark)

1. What is a **chemical equation**?
2. Why should a **magnesium ribbon be cleaned** before burning?
3. Name any **two indicators of a chemical reaction**.
4. What is meant by **reactants and products**?

2. Short Answer Questions (2–3 marks)

Q1. Why is it necessary to balance a chemical equation?

☞ Based on the law of conservation of mass.

Q2. Write balanced equations for the following:

- a) Hydrogen + Chlorine \rightarrow Hydrogen chloride
b) Zinc + Sulphuric acid \rightarrow Zinc sulphate + Hydrogen
-

Q3. What are the different types of chemical reactions?

Explain any two with examples:

- Combination
 - Decomposition
 - Displacement
 - Double displacement
-

Q4. What is a redox reaction? Give an example.

3. Long Answer Questions (4–5 marks)

Q1. Explain the steps to balance a chemical equation.

☞ Use hit-and-trial method.

Q2. Differentiate between:

- Exothermic reaction
 - Endothermic reaction
(Give examples)
-

Q3. Explain the following with examples:

- Corrosion
 - Rancidity
-

Q4. Identify the type of reaction and balance:

1. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
2. $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
3. $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{BaSO}_4 + \text{NaCl}$

☞ These test your understanding of reaction types.

4. Assertion–Reason Questions (Very Important)

Q:

Assertion: Rusting of iron is oxidation.

Reason: Oxygen is added during rusting.

☞ Both are correct and reason explains assertion.

Biology:

LIFE PROCESSES – IMPORTANT QUESTIONS (TILL LYMPH)

Section A: Very Short Answer (1 Mark)

1. What is a life processes ?
2. Name the process by which plants make food.
3. What are autotrophs?
4. Define digestion.
5. What is the role of enzymes in digestion?
6. Name the organ where bile is produced.
7. What is absorption?
8. What is the function of alveoli?
9. What is the role of haemoglobin?
10. What is lymph?

Section B: Short Answer Questions

1. Differentiate between autotrophic and heterotrophic nutrition.
2. Write the steps involved in photosynthesis.
3. Explain the role of stomata in plants.
4. Describe the function of the small intestine in digestion.
5. Why is the small intestine long and coiled?
6. Explain how oxygen and carbon dioxide are exchanged in lungs.
7. What is the importance of the diaphragm in breathing?
8. Write differences between arteries and veins.
9. What are the components of blood?
10. State two functions of lymph.

Section C: Long Answer Questions (Draw the diagrams where ever it is necessary)

1. Explain the process of photosynthesis with a diagram.
(Include equation and role of sunlight, chlorophyll, and carbon dioxide)
 2. Describe the human digestive system with functions of each part.
 3. Explain the process of respiration in humans.
 4. Describe double circulation in humans.
 5. Explain the structure and function of the human heart.
 6. What is lymph? Explain its formation and functions.
-

PHYSICS:

1. A concave mirror has a focal length of 15 cm.

Find its radius of curvature.

2. An object is placed 30 cm in front of a concave mirror of focal length 20 cm.

Find the position of the image.

3. A convex mirror has a focal length of 25 cm.

Find its radius of curvature.

4. An object is placed 10 cm in front of a convex mirror with focal length 15 cm.

Calculate the image distance.

Section B: Using Mirror Formula

(Mirror formula: $1/f = 1/v + 1/u$)

5. An object is placed at 40 cm from a concave mirror of focal length 20 cm.

Find the image distance.

A concave mirror forms an image at 30 cm from the mirror when the object is placed at 15 cm.

Find the focal length.

6. An object is placed 25 cm in front of a convex mirror of focal length 20 cm.

Find the position of the image.

7. Find the object distance if a concave mirror of focal length 10 cm forms an image at 20 cm.

Section C: Magnification-Based Questions

(Magnification: $m = -v/u$)

8. An object placed 20 cm in front of a concave mirror forms an image at 40 cm.

Find the magnification.

9. A convex mirror forms an image at 10 cm for an object placed at 30 cm.

Find magnification and state whether the image is enlarged or diminished.

10. An image formed by a concave mirror is three times the size of the object and inverted.

If the image distance is 30 cm, find the object distance.

Section D: Mixed Conceptual Numericals

11. A concave mirror produces a real image twice the size of the object.

If the focal length is 20 cm, find the object distance.

12.A convex mirror is used as a rear-view mirror in vehicles.

If an object is placed 50 cm in front of it and the focal length is 25 cm, find the image position and nature.

13.An object is placed between the pole and focus of a concave mirror.

If $u = -10$ cm and $f = -15$ cm, find v and magnification.

14.A mirror forms an erect image of magnification +2.

Identify the type of mirror and calculate image distance if object distance is 10 cm.

Section E: Challenge Questions

15.A concave mirror of focal length 12 cm produces an image at twice the distance of the object.

Find the object distance.

16.An object is placed at the centre of curvature of a concave mirror.

What will be the position and size of the image? Verify numerically.

SOCIAL:

1. Make a project on any one of the following (In A4 size paper file)

(a) Sustainable Development

(b) Consumers Awareness

(c) Social Issues

2. Make and write ten questions and answers of one mark (one word or one sentence) H-1 rise of nationalism in Europe, C-1 power sharing, E-1 Development, G-1 Resources and Development

3. Read English newspaper daily related to political parties, election, democracy and paste any 15 article related to it.

4.Learn and revise all the completed chapters from the study material provided to you.

5 .Do map practice of history and Geography.

6.Paste India's political map in your notebook and locate and label all States and Union Territories.

SANSKRIT:

संस्कृतं विभागं सज्जीकृत्य दत्तस्वरूपे प्रस्तूयताम्।

AI:

1. What do you mean by Self-management
2. Give any two examples where small amount of stress is helpful.
3. Write the effects of stress on our life.
4. What is Stress?
5. How can you identify your Strengths and Weaknesses?

6. Explain the importance of Stress Management.
7. Write different of Stress Management techniques.
8. Write down different stress cause agents.
9. What are the communication barriers?
10. What are the different types of communication?
11. What are the 7 C's in communication?
12. What is the feedback?
13. What are the domains of AI?
14. What is the difference between AI, ML, Deep Learning?
15. Define the following.

- Self- Motivation
- Self- Awareness
- Self Regulation

CLASS-12

HINDI:

सृजनात्मक लेखन

- आलोक धन्वा द्वारा रचित कविता पतंग का उद्देश्य लिखिए ।
- हरिवंश राय बच्चन द्वारा रचित कविता आत्म परिचय का सारांश लगभग 60 शब्दों में लिखिए।
- महादेवी वर्मा द्वारा रचित भक्तिन पाठ का सारांश लगभग 60 शब्दों में लिखिए।
- महादेवी वर्मा द्वारा रचित पाठ में 'आलो अंधारी' और बेबी हालदार द्वारा रचित 'नभिक्त' भिक्तन और बेबी हालदार के जीवन में क्या समानताएं और असमानताएं हैं?

विचार लेखन

- प्रमुख जनसंचार माध्यमों का संक्षेप में परिचय लिखिए।
- प्रिंट मीडिया पर लगभग 60 शब्दों में एक लेख लिखिए।
- जनसंचार माध्यमों के संदर्भ में रेडियो तथा टेलीविजन में अंतर स्पष्ट कीजिए।

पठन

- रोजाना 2 पृष्ठ हिन्दी की पाठ्यपुस्तिका पढ़ें और हर पढ़े पाठ का सार लेखें (summary in keypoints)।
- रोजाना अखबार पढ़ें और देश विदेश की खबरों से आवगत रहें ।

ENGLISH:

1. Answer any comprehension passage in cbse latest pattern.

2. write a letter to the editor on the following topic

A. Need for women empowerment.

B. Increasing crime in metro cities and its impact on the city people.

3. write a job application for the post civil engineer in DS construction.

4. write an article on the following

Killing of girl child

Tourism and its promotion

5. write any two notices

6. Collect variety of invitations and paste them in notebook and write any 2 invitations.

Write a report on any road accident.

MATHS:

21. If $A = \begin{pmatrix} 2 & 0 & 1 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{pmatrix}$, then find a matrix X such that $A^2 - 5A + 4I + X = 0$.

22. If $A = \begin{bmatrix} -1 & a & 2 \\ 1 & 2 & x \\ 3 & 1 & 1 \end{bmatrix}$ and $A^{-1} = \begin{bmatrix} 1 & -1 & 1 \\ -8 & 7 & -5 \\ b & y & 3 \end{bmatrix}$, find the value of $(a+x) - (b+y)$.

23. Let N be the set of natural numbers and R be the relation on $N \times N$ defined by $(a, b) R (c, d)$ iff $ad = bc$ for all $a, b, c, d \in N$. Show that R is an equivalence relation.

24. Let $f: R - \left\{-\frac{4}{3}\right\} \rightarrow R$ be a function defined as $f(x) = \frac{4x}{3x+4}$. Show that f is a one-one function. Also check whether f is an onto function or not.

25. A function $f: [0, \infty) \rightarrow [-5, \infty)$ be defined by $f(x) = 3x^2 + 9x - 5$. Prove that the function is a one-one and on-to function.

26. Show that the relation R on the set Z of all integers defined by $(x, y) \in R \Rightarrow (x - y)$ is divisible by 3 is an equivalence relation.

27. Show that the signum function $f: R \rightarrow R$ given by

$$f(x) = \begin{cases} 1, & \text{if } x > 0 \\ 0, & \text{if } x = 0 \\ -1, & \text{if } x < 0 \end{cases} \text{ is neither one-one nor onto}$$

28. Find the value of $\sin^{-1} \left[\sin \left(\frac{13\pi}{7} \right) \right]$

29. Find the principal value of $\tan^{-1} \sqrt{3} - \sec^{-1}(-2)$.

30. Find the product $\begin{pmatrix} 1 & -1 & 0 \\ 2 & 3 & 4 \\ 0 & 1 & 2 \end{pmatrix} \begin{pmatrix} 2 & 2 & -4 \\ -4 & 2 & -4 \\ 2 & -1 & 5 \end{pmatrix}$

31. Verify whether the function $f: Z \rightarrow \left[\frac{-1}{2}, \frac{1}{2} \right]$ defined by $f(x) = \frac{x}{1+x^2}$ is one-one and on-to or not?

32. Show that the relation S on the set of real numbers defined as $S = \{ (a, b) : a \leq b^2, \text{ where } a, b \in R \}$ is neither reflexive nor symmetric.

33. Let a relation R on the set N of natural numbers defined by $R = \{ (x, y) : 3x^2 - 7xy + 4y^2 = 0, x, y \in N \}$. Check whether R is an equivalence relation or not?

34. Find product $\begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & -3 \\ 3 & -2 & 4 \end{bmatrix} \begin{bmatrix} -2 & 0 & 1 \\ 9 & 2 & -3 \\ 6 & 1 & -2 \end{bmatrix}$

35. Evaluate $\sin^{-1}\left(\sin\frac{3\pi}{4}\right) + \cos^{-1}(\cos\pi) + \tan^{-1}(1)$.

36. Draw the rough graph of $\sin^{-1}x$, $\cos^{-1}x$, $\tan^{-1}x$ and hence find its domain and range

37. Express the matrix $A = \begin{bmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -1 & 1 & 2 \end{bmatrix}$ as a sum of symmetric and skew symmetric matrix

38. Evaluate: $\tan^{-1}\left[2\cos\left(2\sin^{-1}\frac{1}{2}\right)\right]$

39. If $A = \begin{pmatrix} 1 & 3 & 2 \\ 2 & 0 & -1 \\ 1 & 2 & 3 \end{pmatrix}$ then show that $A^3 - 4A^2 - 3A + III = 0$

40. $f(A) = \begin{pmatrix} 0 & -\tan\frac{\alpha}{2} \\ \tan\frac{\alpha}{2} & 0 \end{pmatrix}$ and I is the unit matrix of order 2, then show that $I + A = (I -$

$A) \begin{pmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{pmatrix}$

21. If $\cos(\tan^{-1}x) = \sin\left(\cot^{-1}\left(\frac{3}{4}\right)\right)$, then find the value of x .

22. Find the domain of the function $f(x) = \sin^{-1}(x^2 - 4)$. Also find its range.

23. Find the Principle branch value of $\cos^{-1}\left\{\cos\frac{13\pi}{6}\right\}$

SCIENCE:

Biology:

1 Complete your investigatory project on given allotted topic.

2 Draw the following diagram

(i) young anther (ii) Megasporangia (iii) monocot and dicot seed (iii) Double fertilization (iv) Seminiferous tubules

(v) T S of testis (V) Schematic representation of Spermatogenesis and Oogenesis

3. Differentiate between

(i) Geitonogamy and xenogamy

(ii) Perisperm and endosperm

(iii) vegetative cell and generative cell

4. Draw a label diagram of human female reproductive system.

5 Draw a section view of human ovary showing the different stages of development

6 Draw the label diagram of mature sperm and label it and also explain function of each parts.

7 Explain the different phases of menstrual cycle.

8 How is copper T act as an effective contraceptive for human female?

9 Write a short note on different methods of contraceptive

10. What are the suggestive reasons for population explosion?

11. Why is sahari a well-accepted contractive pills?

12. What are the suggestive reasons for population explosion?

13. Learn and revise MCQs and PYQs of first Sexual reproduction in flowering plants, Human Reproduction and Reproductive health.

Chemistry:

Chapter: Solutions

Section A: Concept Notes

Prepare notes on types of solutions, concentration terms (molarity, molality, mole fraction), solubility, vapour pressure, Raoult's law, ideal and non-ideal solutions, and colligative properties. **Section B: Practice Questions**

1. Define molarity.
2. What is mole fraction?
3. Define ideal solution.
4. What are colligative properties? Short Answers: Differentiate molarity and molality. Explain osmotic pressure.

Long Answers:

Explain colligative properties.

Derive elevation of boiling point.

Section C:

Formulas Molarity = moles of solute / volume of solution (L)

Molality = moles of solute / mass of solvent (kg)

Osmotic Pressure = CRT

Section D:

Numericals

Solve 10-12 numericals from NCERT based on concentration and colligative properties.

Section E:

Project Write about solutions in daily life like ORS, soft drinks, saline water. Submission: Maintain neat notebook and submit after holidays.

PHYSICS:

- 1) State and prove Gauss theorem
- 2) Derive all the applications of Gauss law
- 3) Derive the equation for potential energy of dipole placed in Uniform Electric field
- 4) Solve the exercise numerical from 1.1 to 1.15

COMPUTER SCIENCE:

1. Write a Python function to find the maximum of three numbers.
2. Write a Python function to sum all the numbers in a list.
Sample List : (8, 2, 3, 0, 7)
Expected Output : 20
3. Write a Python function to multiply all the numbers in a list.
Sample List : (8, 2, 3, -1, 7)
Expected Output : -336
4. Write a Python program to reverse a string.
Sample String : "1234abcd"

Expected Output : "dcba4321"

5. Write a Python function to calculate the factorial of a number (a non-negative integer). The function accepts the number as an argument.
6. Write a Python function to check whether a number falls within a given range.
7. Write a Python function that accepts a string and counts the number of upper and lower case letters.

Sample String : 'The quick Brown Fox'

Expected Output :

No. of Upper case characters : 3

No. of Lower case Characters : 12

8. Write a Python function that takes a list and returns a new list with distinct elements from the first list.

Sample List : [1,2,3,3,3,3,4,5]

Unique List : [1, 2, 3, 4, 5]

9. Write a Python function that takes a number as a parameter and checks whether the number is prime or not.

Note : A prime number (or a prime) is a natural number greater than 1 and that has no positive divisors other than 1 and itself.

10. Write a Python program to print the even numbers from a given list.

Sample List : [1, 2, 3, 4, 5, 6, 7, 8, 9]

Expected Result : [2, 4, 6, 8]

11. Write a Python function to check whether a number is "Perfect" or not.

According to Wikipedia : In number theory, a perfect number is a positive integer that is equal to the sum of its proper positive divisors, that is, the sum of its positive divisors excluding the number itself (also known as its aliquot sum).

Equivalently, a perfect number is a number that is half the sum of all of its positive divisors (including itself).

Example : The first perfect number is 6, because 1, 2, and 3 are its proper positive divisors, and $1 + 2 + 3 = 6$. Equivalently, the number 6 is equal to half the sum of all its positive divisors: $(1 + 2 + 3 + 6) / 2 = 6$. The next perfect number is $28 = 1 + 2 + 4 + 7 + 14$. This is followed by the perfect numbers 496 and 8128.

12. Write a Python function that checks whether a passed string is a palindrome or not.

Note: A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.

- 13.13. Write a Python function that prints out the first n rows of Pascal's triangle.
Note : Pascal's triangle is an arithmetic and geometric figure first imagined by Blaise Pascal.
- 14.14. Write a Python function to check whether a string is a pangram or not.
Note : Pangrams are words or sentences containing every letter of the alphabet at least once.
For example : "The quick brown fox jumps over the lazy dog"
- 15.15. Write a Python program that accepts a hyphen-separated sequence of words as input and prints the words in a hyphen-separated sequence after sorting them alphabetically.
Sample Items : green-red-yellow-black-white
Expected Result : black-green-red-white-yellow

PART-B

- 16.Count the number of vowels in a string
- 17.Count the number of words in a string
- 18.Check whether a string is a palindrome
- 19.Reverse a string without using slicing or [::-1]
- 20.Remove all punctuation from a string
- 21.Convert a string to uppercase and lowercase
- 22.Find the frequency of each character in a string
- 23.Replace a word in a string with another word
- 24.Check if two strings are anagrams of each other
- 25.Count the number of digits, letters, and special characters in a string
- 26.Find the longest word in a sentence
- 27.Capitalize the first letter of each word in a string
- 28.Remove duplicate characters from a string
- 29.Check whether a substring exists in a given string
- 30.Print each word of a string on a new line

PART-C

1. Find the sum and average of elements in a list
2. Find the maximum and minimum elements in a list
3. Count even and odd numbers in a list
4. Search for an element in a list (linear search)
5. Remove all duplicate elements from a list
6. Sort a list in ascending and descending order (without using sort())
7. Merge two lists into one
8. Find the second largest number in a list

9. Create a list of squares/cubes of numbers from 1 to N
10. Remove all even numbers from a list
11. Insert an element at a given position in a list
12. Reverse a list without using reverse() function
13. Count the frequency of each element in a list
14. Display only unique elements from a list
15. Create a list from user input and display the sum of only positive numbers

PART-D

1. Create a dictionary and display its elements
2. Add a new key-value pair to an existing dictionary
3. Update the value of an existing key in a dictionary
4. Delete a key-value pair from a dictionary
5. Check if a key exists in a dictionary
6. Display all keys, all values, and all key-value pairs separately
7. Find the value associated with a given key
8. Create a dictionary from two lists (one for keys, one for values)
9. Count the frequency of each character in a string using a dictionary
10. Count the frequency of words in a sentence using a dictionary
11. Find the key with the maximum value in a dictionary
12. Sort a dictionary by keys or by values
13. Merge two dictionaries into one
14. Create a nested dictionary (example: student records with roll number as key)
15. Write a program to find the sum of all values in a dictionary.