

KENDRIYA VIDYALAYA KALIMPONG

CLASS III Summer Vacation Practise-work

SESSION (2025-26)

SUBJECT: ENGLISH

TEACHER: Mrs. Dawa Dolma Bhutia

1. Read the lesson 'Best Friends' and watch the video of the sent link here under the guidance of your parents, then answer the following questions in A4 size paper beautifully.

https://youtube.com/watch?v=Og_Bvztkrds&feature=shared

- a) Who were the four friends here?
- b) Why were they fighting?
- c) Who helped them to end their fight?
- d) What lessons did the friends learn in the end?

2. Fill in using 'a' and 'an' (Do in A4 size paper):

- a) _____ dog is running after the boy.
- b) She brought _____ eagle to her class.
- c) _____ big cat ate _____ ice-cream.
- d) Ashmit brought _____ orange, _____ banana and _____ apple.

3. Write few lines about your friend. (Do in A4 size paper) beautifully.

MY FRIEND

1. My friend's name is _____.
2. She/he is a boy/girl.
3. She/he is _____ years old.
4. Her/his favourite colour is _____.
5. She/he likes to _____ with me.
6. She / he wants to become _____.
7. I love my _____ very much.

4. Learn and write the poem ‘What Do You Do?’ on page no. 34 and 35 of your text-book. (In A4 size paper)

5. 'STOP THE BUS' WORD-GAME

Write down a word of your choice in A4 size paper, then write the next word beginning from the last letter of your first word.

Then continue repeating till you have 20 such new words.

(Write beautifully in serial) For example:

1. Lovely 11.
2. Younger 12.

3. Find these words in the puzzle - Family Tree:

grandmother grandparents twins sibling nephew daughter parent cousin grandson grandchild

g	r	a	n	d	p	a	r	e	n	t	s
z	t	q	r	d	x	h	r	d	f	u	x
s	w	n	e	p	h	e	w	q	p	u	l
x	i	s	i	u	j	v	s	n	w	x	y
j	n	g	r	a	n	d	c	h	i	l	d
p	s	z	p	b	h	c	o	u	s	i	n
g	r	a	n	d	m	o	t	h	e	r	p
f	d	a	u	g	h	t	e	r	c	m	a
v	e	k	g	r	a	n	d	s	o	n	r
b	i	j	c	i	s	r	h	r	l	w	e
s	l	j	g	h	d	x	e	h	a	i	n
s	i	b	l	i	n	g	i	n	g	e	t

CLASS : III

SUBJECT: MATHEMATICS

TEACHER: Mrs. Neelam Shahi

NAME: _____

1. Learn tables up to 15.
2. Revise the work done in the notebook.
3. Write the numbers in words-

a. 89

b. 98

c. 112

d. 588

e. 789

f. 999

4. Write the numbers in figures-

a. One hundred thirteen = _____

b. Five hundred eighty seven = _____

- c. Seven hundred forty eight = _____
- d. Nine hundred fourteen = _____

5. Write Hundreds, Tens and Ones for the given numbers

a. 467

4 Hundreds 6 Tens 7 Ones

b. 680

c. 456

d. 987

e. 509

SUBJECT: ENGLISH

TEACHER: Mrs Dawa Dolma Bhutia

1. Word Building:

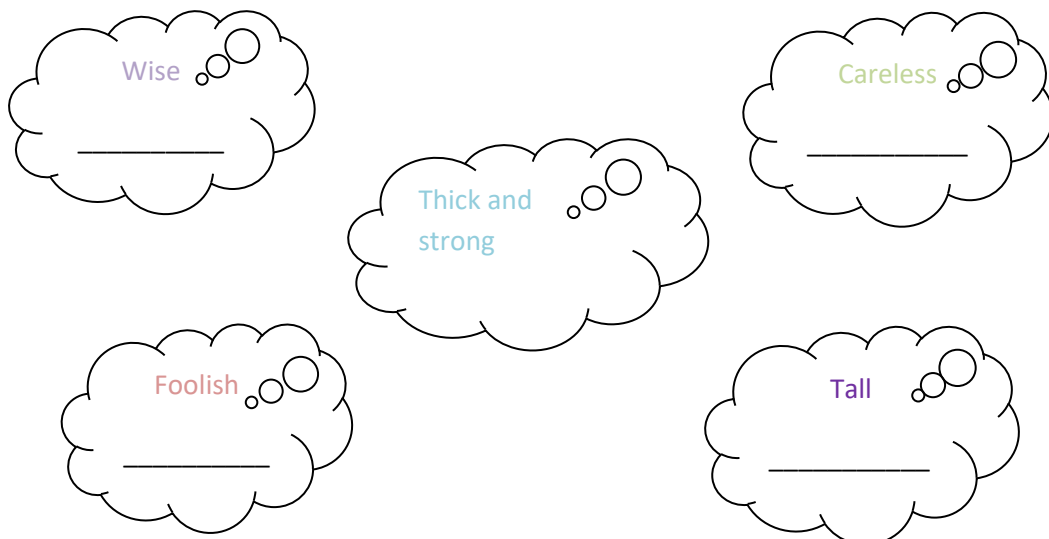
- i) The children love to sing _____.(loud)
- ii) A _____ is a place where children study.
- iii) I have to leave at _____(too, two)
- iv) I can _____ the birds song.(hear, here)
- v) Rabbits live in u_____.(Whole, hole)

2. Here are some answers:

- i. The colour of the ant is black.
- ii. It lives in land.
- iii. It has two long antennae.
- iv. It crawls on the ground.
- v. It eats sugar.

Now frame questions for the above answers.(in A4 size paper)

3. Give the opposites of:



Write any one poem in A4 size paper. (The best POEM will be selected for sticker)

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□□□□□□ - 5 □ □□ □□ □□ □□□□□□ □□□□□□ □ □□□□□□ □□□ □□□□□□ |

DO THIS WORK IN YOUR E.V.S. COPY

1. Here is a list of departments who make our life organised and disciplined. Write their roles.

<u>DEPARTMENT</u>	<u>ROLES</u>
Fire Department	
Municipality/ Panchayat	
Police Department	
Bank	
Hospital	

2. Answer the following questions:

- a. If you get pocket money, what do you do with it? If you save it then where do you keep this saving?
- b. Request one of your family members to show you their *bank passbook*. Note the important information given on the first page of the passbook.

Learn your tables from 2 to 20 and practice place value, addition, subtraction.

1. Measure the dimensions of the following things at your home.

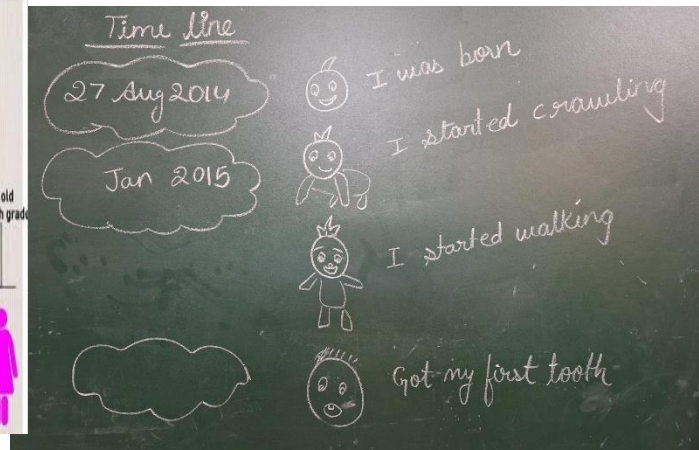
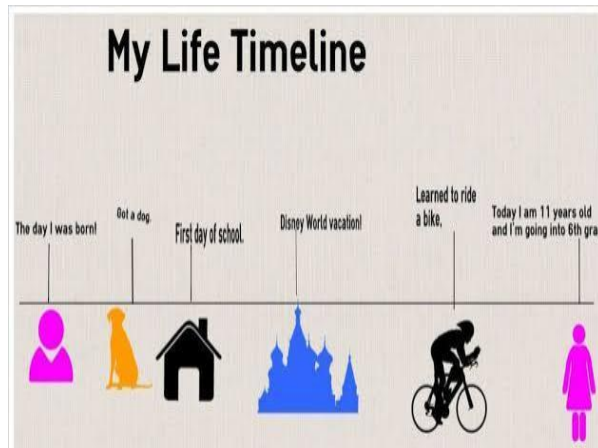
A window

A cupboard A door

A room floor

2. Measure the height of each family member and name the person with shortest and tallest height with their measurement in centimetres.

3. Make your life time-line



4. Make a model of a clock.

5. Write and learn Roman numbers from 1 to 50

Roman Numerals 1 to 50

1 = I	11 = XI	21 = XXI
2 = II	12 = XII	22 = XXII
3 = III	13 = XIII	23 = XXIII
4 = IV	14 = XIV	24 = XXIV
5 = V	15 = XV	25 = XXV
6 = VI	16 = XVI	26 = XXVI
7 = VII	17 = XVII	27 = XXVII
8 = VIII	18 = XVIII	28 = XXVIII
9 = IX	19 = XIX	29 = XXIX
10 = X	20 = XX	30 = XXX
31 = XXXI	41 = XLI	
32 = XXXII	42 = XLII	
33 = XXXIII	43 = XLIII	
34 = XXXIV	44 = XLIV	
35 = XXXV	45 = XLV	
36 = XXXVI	46 = XLVI	
37 = XXXVII	47 = XLVII	
38 = XXXVIII	48 = XLVIII	
39 = XXXIX	49 = XLIX	
40 = XL	50 = L	

CLASS: V**SUBJECT: ENGLISH****TEACHER: Mrs Dawa Dolma Bhutia**

1. Read the lessons and watch the related videos under the supervision of your parents.

i) Flying Together: <https://youtu.be/kpJT-2F8UHU>

ii) Robinson Crusoe: <https://youtu.be/PpBTsmHKKz4>

2. Here are some answers:-

i) The colour of the ant is black.

ii) It lives in land.

iii) It has two long antennae.

IV) It crawls on the ground.

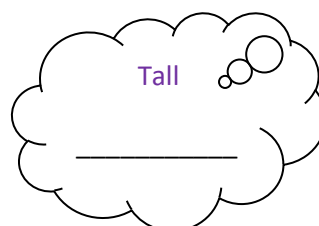
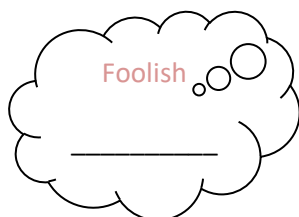
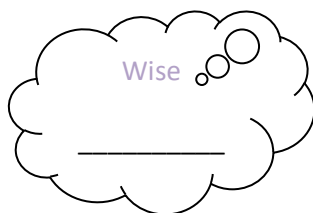
v) It eats sugar.

Now frame questions for the above answers. (in A4 size paper)

3. After watching the video of the lesson – ‘Flying Together,’ do the provided beautifully in A4 size paper.

The words in the clouds describe something or someone in the story. (describing words/ adjectives).

Name them in the blanks provided from the story ‘Flying Together’.



5. Write any ten English proverbs in a A4 size paper and decorate beautifully and learn them by heart.

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DO THIS WORK IN YOUR E.V.S. COPY**1. Answer the following:**

- a) Why would a person *not drown* in the Dead Sea?
- b) How is salt made?
- c) Name one Indian-origin female astronaut who worked at NASA.
- d) Who is known as the *Missile Man of India*?
- e) How many days does a chickpea(chana) soaked in water take to sprout?
- f) What is the shape of the earth called?
- g) Write five sentences on *Chandrayan 3*.

2. Have you ever felt an earthquake? Write your experiences.**3. What are the safety measures one should take before and after an earthquake hits?**

CLASS: V

SUBJECT: MATHS

TEACHER: Mrs Neelam Shahi

- 1. Learn and write tables 2 to 20 .
- 2. Solve the give multiplication and division sums.

$$\begin{array}{r} 1. \ 464 \\ \times 27 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 2. \ 288 \\ \times 75 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 3. \ 617 \\ \times 89 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 4. \ 685 \\ \times 87 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 5. \ 467 \\ \times 53 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 6. \ 499 \\ \times 64 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 7. \ 774 \\ \times 68 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 8. \ 544 \\ \times 96 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 9. \ 457 \\ \times 82 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 10. \ 874 \\ \times 85 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 11. \ 746 \\ \times 95 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 12. \ 426 \\ \times 64 \\ \hline \hline \end{array}$$

3. Write and learn Roman numbers from 1 to 100

ROMAN NUMERALS CHART

1 TO 100

1	I	21	XXI	41	XLI	61	LXI	81	LXXXI
2	II	22	XXII	42	XLII	62	LXII	82	LXXXII
3	III	23	XXIII	43	XLIII	63	LXIII	83	LXXXIII
4	IV	24	XXIV	44	XLIV	64	LXIV	84	LXXXIV
5	V	25	XXV	45	XLV	65	LXV	85	LXXXV
6	VI	26	XXVI	46	XLVI	66	LXVI	86	LXXXVI
7	VII	27	XXVII	47	XLVII	67	LXVII	87	LXXXVII
8	VIII	28	XXVIII	48	XLVIII	68	LXVIII	88	LXXXVIII

1. $8 \overline{)340}$

2. $7 \overline{)5996}$

3. $8 \overline{)684}$

4. $4 \overline{)2353}$

5. $9 \overline{)674}$

6. $12 \overline{)4628}$

7. $5 \overline{)2059}$

8. $11 \overline{)3581}$

9. $15 \overline{)6634}$

10. $10 \overline{)7711}$

11. $7 \overline{)1661}$

12. $5 \overline{)2359}$

4. Find out the names of one great Indian Mathematicians and write few lines about him/ her.

KENDRIYA VIDYALAYA KALIMPONG

HOLIDAY HOMEWORK (SUMMER VACATION)

Subject: Vocational Education (Class 6)

Theme: Learning Life Skills at Home

Instructions:

Complete the following tasks during your vacation. Write about each activity in 4-5 lines in your Vocational notebook and stick some photos of doing each activity. You can add more activity by your side.

Activities like:

1. Room Cleanliness:

Clean and arrange your study table or cupboard.

Write how you felt after organizing it.

2. Simple Gardening:

Plant seeds (e.g., mustard, coriander) in a pot.

Observe the growth and record it weekly.

3. Healthy Habits:

Follow a personal hygiene routine.

Write about your daily habits (brushing, bathing, handwashing).

4. Time Table Planning:

Create a weekly timetable for your vacation (study, help at home, play).

5. Cooking Assistance:

Help in preparing a simple dish (e.g., sandwich, fruit salad).

Write the recipe and what you learned.

6. Self-Evaluation: **Mandatory (अनिवार्य)**

What did you learn from these activities?

How will it help you in real life?

Kendriya Vidyalaya Kalimpong

Session 2025-26

Class - VI

Subject - English

1. Find 15 new words from newspapers, storybooks, or cartoons. Write each word, its meaning, and use it in a sentence.

2. Write a letter to your friend Samarth/ Sameera inviting him spend spend the summer vacation at your place in Kalimpong.

3. Make a beautiful card for your father on the occasion of Father's Day

4. Make a POSTER for your bathroom to remind yourself and other family members mentioning at least five ways to save water at home.

5. On an A4 size sheet, paste a picture of any beautiful hillside, sea-beach or a market place and describe it in

100 words using new words.

***Note : use color pencils and pens to do your homework.**

KENDRIYA VIDYALAYA KALIMPONG

Class : 6, Social Science

Summer Vacation Homework 2025-26

1. Draw a rough map of your locality or your village, including your home, school and a few other important landmarks. Show the cardinal directions.
2.
 - A. On the political map of World mark :- (a) 7 continents (b) 5 oceans
 - B. On the political map of India mark :- (a) States & Union territories with capitals
 - C. On the physical map of India mark :- (a) Islands of India (b) Major Sea bodies (c) Rivers- Brahmputra, Ganga and Indus.
3. Learn and Revise Chapter 1. Locating places on the Earth.

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOME-WORK (2025-26)

SUBJECT-MATHS

CLASS-6

Instructions for Submission:

- Use Homework notes for solving and don't write solutions from the google/internet.
- Submission Date: First day after summer vacation.
- All work must be handwritten.
- Marks will be awarded for neatness, completeness, and creativity.
- If any question is not clear, students can leave that question or ask me on WhatsApp.

VERY VERY IMPORTANT :

- **Learn all the square till 25**
 - **learn all the cubes till 12**
 - **learn all the tables till 25**
1. Write the pattern for all sequences and write the next 3 numbers.
1 4, 9, 16, 25, 36, 49, ... (Squares)
1, 8, 27, 64, 125, 216, ... (Cubes)
1, 2, 3, 5, 8, 13, 21, ... (Virahānka numbers)
1, 2, 4, 8, 16, 32, 64, ... (Powers of 2)
1, 3, 9, 27, 81, 243, 729, ... (Powers of 3)
 2. Write 5 points about how mathematics is making your life easier.
 3. are 1, 8, 27, 64, 125, ... called cubes?
 4. What is the role of mathematics in shopping? Create a bill using addition, subtraction and multiplication.
 5. Make a chart to show Roman numerals and their Hindu Arabic equivalents.
 6. Geometry Around me:
 7. List out the household items in geometric shapes and paste it pictures.(10pictures)

KENDRIYA VIDYALAYA KALIMPONG

Class : 6, Social Science

Summer Vacation Homework 2025-26

4. Draw a rough map of your locality or your village, including your home, school and a few other important landmarks. Show the cardinal directions.
5. A. On the political map of World mark :- (a) 7 continents (b) 5 oceans
D. On the political map of India mark :- (a) States & Union territories with capitals
E. On the physical map of India mark :- (a) Islands of India (b) Major Sea bodies (c) Rivers- Brahmaputra, Ganga and Indus.
6. Learn and Revise Chapter 1. Locating places on the Earth.

KENDRIYA VIDYALAYA KALIMPONG

SUMMER BREAK HOLIDAY HOMEWORK

Class- VI.

Subject-Science

1. Choose any one famous scientist and write 10 lines about their life and contribution to life.
2. Include 5 examples of how science helps in our daily activities (with pictures or drawings).
Write 5-6 sentences for each example.
3. Conduct a simple science experiment at home (e.g. growing a plant from seeds). Write the materials used, steps, and what you observed in each day during the growth of a plant.
4. Make a table classifying living organisms into: Plants, Animals, Insects, Aquatic life, Microorganisms. Draw or paste the pictures.
5. Visit a garden or observe your surroundings. List 5 different plants and 5 different animals/insects you see. Describe any 2 interesting features of each.



PM SHRI KENDRIYA VIDYALAYA, KALIMPONG

SUMMER VACATION'S HOME WORK

(□□□□□□□□□□□□ - □□□□□□□□□□)

SUBJECT : SANSKRIT Sub. Teacher : Suresh Chandra bairwa

CLASS VII

- 1) धातुरूपलेखनं कण्ठस्थीकरणं च : भू, पठ् कृ, दृश् , स्था (पञ्च- लकारेषु)
- 2) शब्दरूपलेखनम् कण्ठस्थीकरणं च : अस्मद् , युष्मद्
- 3) संस्कृते संख्यावाचकान्□□खत । (01 से 50 तक)
- 4) शब्दरूपलेखनम् कण्ठस्थीकरणं च : □□□,□□□,□□ लेखनम् कण्ठस्थीकरणं च।
- 5) □□□, □□□□, □□म् □□□□□□ □□□□□□□ लेखनम् कण्ठस्थीकरणं च।
- 6) पाठस्य श्लोकान् स्मृत्वा स्वपुस्तिकायां लिखत।
- 7) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम्(01 page) अवश्यं पठन्तु ।
- 8) छात्रप्रतिज्ञां लिखित्वा स्मरन्तु।(In Sanskrit)
- 9) विद्यालय-प्रार्थनां लिखित्वा स्मरन्तु।(In Sanskrit)
- 10) □□□□□ - □□□□□□ लेखनम् कण्ठस्थीकरणं च।
- 11) □□□□ लेखनम् कण्ठस्थीकरणं च।

□□□□□□□□ □□□□□□ -

□□□□□ □□□: □□□□□ □□□□ □□□□□□□□ □□□□□□□□

□□□□□□□ लेखनम् च।

If common project not given by your class teacher.

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.
- iii) Neat works are always appreciated.

*******All the Best*******

*****All the Best*****

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOMEWORK

SESSION 2025-26

NAME OF TEACHER:- SN CHOUDHARY, PGT-HISTORY

CLASS-IX
SCIENCE

SUBJECT:-SOCIAL

1. Write an article on United Nation and NITI Aayog (about 350 words each)
2. Write short note on following topics:-
 - i. BR Ambedkar
 - ii. Rajendra Prasad
 - iii. Sardar Vallabhai Patel
 - iv. Subash Chandra Bose
3. Write Indian Union Territories, its capitals, Governors and Chief Ministers.
4. Write a note on India's Economy (400 words)
5. Read the first chapter of your history, pol science and Geography books and learn these chapters.
6. Draw a world map and mark the following countries:-
Germany, Austria, Italy, France, Spain, Portugal, Egypt, Iran, Russia, USA, England, Brazil,

CLASS- VII
SCIENCE

SUBJECT:-SOCIAL

1. Draw a physical map of india and mark the following:-
Himalayas, Northen Plains, Plateau, Thar Desert, Costal Areas and their names and Islands.
also mark the major rivers of india on the same map.
2. Write Short note on following:-
Mahatma Gandhi, Jawahar Lal Nehru, Subash Chandra Bose, Sardar Vallabhai Patel
3. Write an article on Harappan Civilisation you have studied in class 6. (350 words)
4. Write short note on following:- (100 words each)
Reserve Bank of India, Supreme Court of India, Indian Parliament,
5. Read the chapter 1 of your Social Science book and learn it.

CLASS- XII

SUBJECT:-HISTORY

1. Read the chapters 1 to 3 of your history book and learn it.
2. Complete the project work assigned to you.
3. Prepare 50 MCQs from the chapter 1 to 3.
4. prepare 10 important questions along with answers from chapter 1 to 3 each question's answer must be in 250 words.
5. Draw or paste a political map of India and mark the followings:-

Sixteen Mahajan padas, Major Harappan sites, Provincial Administration Centres of Mauryas

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOME-WORK (2025-26)

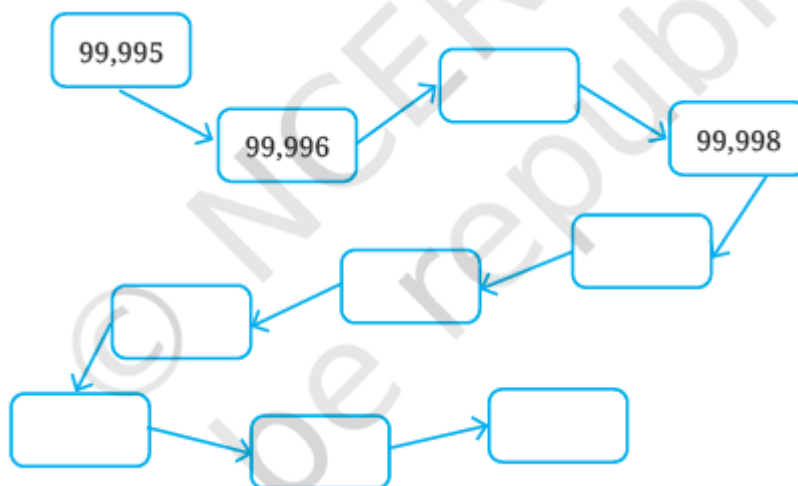
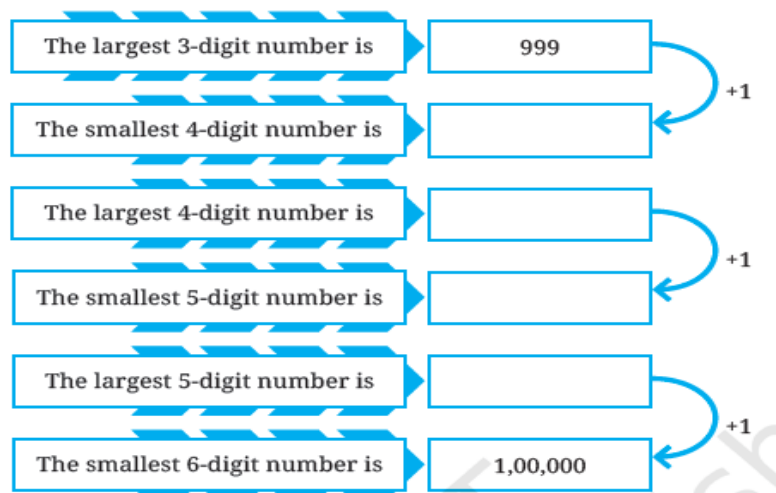
SUBJECT-MATHS

CLASS-7

Instructions for Submission:

- Use Homework notes for solving and don't write solutions from the google/internet.
- Submission Date: First day after summer vacation.
- All work must be handwritten.
- Marks will be awarded for neatness, completeness, and creativity.

1. Observe the pattern and fill in the boxes given below.



- What if a person ate 3 varieties of rice every day? Will they be able to taste all the lakh varieties in a 100-year lifetime? Find out.
- According to the 2011 Census, the population of the town of *Chintamani* was about 75,000. How much less than one lakh is 75,000?
- The estimated population of *Chintamani* in the year 2024 is 1,06,000. How much more than one lakh is 1,06,000?
- By how much did the population of *Chintamani* increase from 2011 to 2024?
- Write each of the numbers given below in words:
 - 3,00,600

- b) 5,04,085
 - c) 27,30,000
 - d) 70,53,138
7. Write the corresponding number in the Indian place value system for each of the following:
- a) One lakh twenty-three thousand four hundred and fifty-six
 - b) Four lakh seven thousand seven hundred and four
 - c) Fifty lakhs five thousand and fifty
 - d) Ten lakhs two hundred and thirty-five

In the **Land of Tens**, there are special calculators with special buttons.

1. The **Thoughtful Thousands** only has a +1000 button. How many times should it be pressed to show:

- (a) Three thousand? 3 times
- (b) 10,000? _____
- (c) Fifty three thousand? _____
- (d) 90,000? _____
- (e) One Lakh? _____
- (f) _____ ? 153 times
- (g) How many thousands are required to make one lakh?



2. The **Tedious Tens** only has a +10 button. How many times should it be pressed to show:

- (a) Five hundred? _____
- (b) 780? _____
- (c) 1000? _____
- (d) 3700? _____
- (e) 10,000? _____
- (f) One lakh? _____
- (g) _____ ? 435 times



3. The **Handy Hundreds** only has a +100 button. How many times should it be pressed to show:

- (a) Four hundred? _____ times
- (b) 3,700? _____



HAPPY HOLIDAY



PM SHRI KENDRIYA VIDYALAYA , KALIMPONG
SUMMER VACATION'S HOME WORK (ग्रीष्मावकाश-
गृहकार्यम्)

SUBJECT : SANSKRIT Sub. Teacher : Suresh CHANDRA BAIRWA

CLASS VI

- 1) शब्दरूपलेखनम् कण्ठस्थीकरणं च : राम, लता, फल
 - 2) धातुरूपलेखनं कण्ठस्थीकरणं च : पठ्, गम्, चल् (लट्, लृट् लकारेषु)
 - 3) वर्णविच्छेदं कुरुतः (यथा= रामः= र् + आ + म् + अः)
चषकः, कपोतः, विद्यालयः, सिंहः, कृषकः, खनित्रम्, श्रमिका, भित्तिकम्, स्थानकम्,
पोषकाणि, वातायनम्, क्रीडनकम्, एकस्मिन्, प्रसन्ना, अस्माकम्, सिञ्चति, सिंहाः, गृहम्,
विद्यालयः, कृषकः, दीपकः, व्याघ्रः, ज्ञानी, मयूरः, रक्षकः ।
 - 4) कर्ता – तालिका लेखनम् कण्ठस्थीकरणं च।
 - 5) (i) विद्यालय-प्रार्थना संस्कृत भाषायां लेखनम् कण्ठस्थीकरणं च।
(ii) संस्कृत-छात्रप्रतिज्ञा संस्कृत भाषायां लेखनम् कण्ठस्थीकरणं च।
 - 6) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम् (01 page) अवश्यं पठन्तु ।
 - 7) संस्कृत-परियोजना-कार्यम् । [INDIVIDUAL]
 - 8) कारक लेखनम् कण्ठस्थीकरणं च।
- परियोजना कार्य – चित्राणि तथा नामानि**
दश वस्तूनां चित्राणि रचयित्वा तेषां नामानि लिखत ।

If common project not given by your class teacher.

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.
- iii) Neat works are always appreciated.

*****All the Best*****



PM SHRI KENDRIYA VIDYALAYA , KALIMPONG
SUMMER VACATION'S HOME WORK (ग्रीष्मावकाश-
गृहकार्यम्)
SUBJECT : SANSKRIT Sub. Teacher : Suresh
Chandra bairwa

CLASS VII

- 1) धातुरूपलेखनं कण्ठस्थीकरणं च : भू, पठ् कृ, दृश् , स्था (पञ्च- लकारेषु)
- 2) शब्दरूपलेखनम् कण्ठस्थीकरणं च : अस्मद् , युष्मद्
- 3) संस्कृते संख्यावाचकान् लिखत । (01 से 50 तक)
- 4) शब्दरूपलेखनम् कण्ठस्थीकरणं च : राम, लता, फल लेखनम् कण्ठस्थीकरणं च।
- 5) तत्, एतत्, किम् त्रिषु लिंगेषु लेखनम् कण्ठस्थीकरणं च।
- 6) पाठस्य श्लोकान् स्मृत्वा स्वपुस्तिकायां लिखत।
- 7) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम् (01 page) अवश्यं पठन्तु ।
- 8) छात्रप्रतिज्ञां लिखित्वा स्मरन्तु। (In Sanskrit)
- 9) विद्यालय-प्रार्थनां लिखित्वा स्मरन्तु। (In Sanskrit)
- 10) कर्ता – तालिका लेखनम् कण्ठस्थीकरणं च।
- 11) कारक लेखनम् कण्ठस्थीकरणं च।

परियोजना कार्य –

वर्षा ऋतोः विषये पञ्च वाक्यानि संस्कृत भाषायां लेखनम् च।

If common project not given by your class teacher.

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.
- iii) Neat works are always appreciated.

*****All the Best*****



PM SHRI KENDRIYA VIDYALAYA , KALIMPONG
SUMMER VACATION'S HOME WORK (ग्रीष्मावकाश-गृहकार्यम्)
SUBJECT : SANSKRIT Sub. Teacher : Suresh Chandra
bairwa

CLASS VIII

- 1) धातुरूपलेखनं कण्ठस्थीकरणं च : पठ् , गम् , चल्, हस् (पञ्च- लकारेषु)
- 2) शब्दरूपलेखनम् कण्ठस्थीकरणं च : राम,लता,फल लेखनम् कण्ठस्थीकरणं च।
- 3) तत्, एतत्, किम् त्रिषु लिंगेषु लेखनम् कण्ठस्थीकरणं च।
- 4) शब्दरूपलेखनम् कण्ठस्थीकरणं च : अस्मद् , युष्मद्
- 5) कर्ता – तालिका लेखनम् कण्ठस्थीकरणं च।
- 6) कारक लेखनम् कण्ठस्थीकरणं च।
- 7) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम्(01 page) अवश्यं पठन्तु ।
- 8) छात्रप्रतिज्ञां लिखित्वा स्मरन्तु।(In Sanskrit)
- 9) विद्यालय-प्रार्थनां लिखित्वा स्मरन्तु। (In Sanskrit)
- 10) परियोजना कार्य – पर्यावरण-प्रदूषणम्

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.
- iii) Neat works are always appreciated.

*****All the Best*****

KENDRIYA VIDYALAYA KALIMPONG

SUMMER BREAK HOLIDAY HOMEWORK

Class – VII.

Sub- Science

1. Choose one invention that has changed the world (e.g., electricity, telephone, internet, microscope). Write a short paragraph (10–12 lines).
2. Create a timeline of 5 major scientific discoveries from ancient times to modern day. Include the name of the scientist, year, and contribution.
3. Design a **poster** on “*Future of Science and Technology*”. Include drawings, slogans, and ideas on how science can help solve global problems (e.g., pollution, disease, energy crisis).
4. Draw a concept map showing the properties of acids, bases, and neutral substances. Include examples from nature and daily life.
5. Using turmeric, lemon juice, baking soda, soap water, and vinegar : Prepare a table showing which ones are acidic, basic, or neutral. Use turmeric as a natural indicator. Record your observations.
6. Revise the chapter with Question answer of chapter 1 & 2.

KENDRIYA VIDYALAYA KALIMPONG

HOLIDAY HOMEWORK (SUMMER VACATION)

Subject: Vocational Education (Class 7)

Theme: Becoming Independent and Responsible

Instructions:

Complete the following tasks during your vacation. Write about each activity in 4–5 lines in your Vocational notebook and stick some photos of doing each activity. You can add more activity by your side.

Activities like:

1. Time Table Planning:

Create a weekly timetable for your vacation (study, help at home, play).

2. Healthy Habits:

Follow a personal hygiene routine.

Write about your daily habits (brushing, bathing, handwashing).

3. Cooking Assistance:

Help in preparing a simple dish (e.g., sandwich, fruit salad).

Write the recipe and what you learned.

4. Digital Literacy:

Learn to open, save, and type a document in MS Word or Google Docs.

Type a short paragraph about your vacation plan.

5. Self-Evaluation: **Mandatory** (अनिवार्य)

What did you learn from these tasks?

How will it help you in real life?

SUMMER HOLIDAY HOMEWORK (2025-26)

CLASS VII

ENGLISH

1) Letter to a Future Self

Write a letter to their future self (10 years later).

Focus on:

- i) Hopes, goals, and dreams
- ii) Reflections on their current self
- iii) Use of formal letter format

2) Story Box: Pick-Your-Own-Ending Tale

Write **one** short story with two alternate endings for the same story

3) Book-to-Movie Critic

Read a story from any book/ novel of your choice. Then students to create:

- i) A movie poster
- ii) A book review

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOME-WORK (2025-26)

SUBJECT-MATHS

CLASS-8

Instructions for Submission:

- Use Homework notes for solving and don't write solutions from the google/internet.
- Submission Date: First day after summer vacation.
- All work must be handwritten.
- Marks will be awarded for neatness, completeness, and creativity.

1. Fill in the missing numbers

- a) The missing values are the whole numbers between 1 and 9.
- b) Each number is used only once.
- c) Each row is an arithmetic equation.
- d) Each column is an arithmetic equation.
- e) Remember that multiplication.

	-	4	-		1
+		-			
2	x		+	8	18
+		+		-	
	-	3	x		-20
15		2		0	

2. Determine the missing value in the puzzle below.

$$\star \square \star \square \star \square \star \square = 16$$

$$\star \square \star \square \star \square \star \square = 13$$

$$\star \square \star \square = 8$$

$$\star \star \star \square \square \square = ?$$

$$\triangle x = x^2 - 1, \text{ if } x \text{ is an even number}$$

$$\square x = x^2 + 1, \text{ if } x \text{ is an odd number}$$

a. What is the value of

$$\triangle 6 - \square 5 = ?$$

b. What is the value of

$$\triangle 8 + \square 5 = ?$$

Puzzle 1

- Think of a number.
- Add 5 to it.
- Multiply the result (got in step 2) by 3.
- Now subtract 15 from above.
- Now divide the last result by the original number.
- Finally add 7 to the result.

Puzzle 2

- Think of a number.
- Add 5.
- Double your result.
- Add 40.
- Divide by 2.
- Subtract the number that you first thought.
- Multiply by 4.

Puzzle 3

- Find me: Who am I?
- I am a 2-digit number.
- The sum of my digits is 10.
- I am greater than 8 but less than 30.
- What number am I?

3. Fill in the blank spaces.

[illegible]

HAPPY HOLIDAYS

KENDRIYA VIDYALAYA KALIMPONG

HOLIDAY HOMEWORK (SUMMER VACATION)

Subject: Vocational Education (Class 8)

Theme: Practical Skills for Daily Life

Instructions:

Complete the following tasks during your vacation. Write about each activity in 4-5 lines in your Vocational notebook and stick some photos of doing each activity. You can add more activity by your side.

Activities like:

1. Home Management:

Clean your study space and organize books/clothes.

Write before and after steps and results.

2. Basic Cooking:

Prepare any 1-2 simple dishes (tea, poha, salad, fruit juice, sandwich, etc...).

Write the ingredients, process, and safety tips followed while making.

3. Computer Practice:

Create a short PowerPoint presentation on "My Summer Vacation Plan."

Include text and pictures.

4. Community Work:

Do something helpful for your family or neighbourhood (e.g., donate old items, help a younger sibling, etc...).

Describe the activity and your experience.

5. Self-Evaluation: **Mandatory** (अनिवार्य)

What did you learn from these tasks?

How will it help you in real life?

KENDRIYA VIDYALAYA KALIMPONG

Sub: Science Class-8
Summer Holiday Homework

1. What are the three states of matter? Define each of them with two examples.
2. What happens to water if (a) It is kept in a deep freezer (b) It is heated Explain the phenomenon of change of state of water.
3. How are roots useful to the plants? give any two points.
4. Define adolescence.
5. Lightning and thunder take place in the sky at the same time and at the same distance from us. Lightning is seen earlier and thunder is heard later. Can you explain why?
6. How are different sound notes generated in musical instruments like guitar, which uses strings for sound generation, and flute, which uses blown air for sound generation?
7. Distinguish between loudness and intensity of sound.
8. In which of the three media, air, water or iron; does sound travel the fastest at a particular temperature?
9. What do you mean by rotation of earth?
10. What is the secret behind the moon appearing at different positions each day?

KENDRIYA VIDYALAYA KALIMPONG

Class : 8, Social Science
Summer Vacation Homework 2025-26

1. Planting a sapling
2. Take pictures of it at different stages
3. Write a short report about the process, including why tree planting is important for the environment

SUMMER HOLIDAY HOMEWORK (2025-26)

CLASS VIII

ENGLISH

1) Letter from a Lockdown

Write a letter from the point of view of an object in your house during a lockdown (e.g., a fan, TV, school bag). Describe what it sees, hears, and feels

2) “Flip the Ending” Fan Fiction

Choose a story or poem from your syllabus and write a completely different ending:

What if the main character made a different decision? What if a new character entered the plot?

3) “The Memory Jar”

Write 10 memorable or meaningful moments in your life (funny, embarrassing, touching) on slips of paper and store them in a jar.
Choose one and write a full narrative about it.



PM SHRI KENDRIYA VIDYALAYA , KALIMPONG
SUMMER VACATION'S HOME WORK (ग्रीष्मावकाश-

गृहकार्यम्)

SUBJECT : SANSKRIT Sub. Teacher : Suresh
CHANDRA BAIRWA

CLASS VI

- 1) शब्दरूपलेखनम् कण्ठस्थीकरणं च : राम, लता, फल
 - 2) धातुरूपलेखनं कण्ठस्थीकरणं च : पठ्, गम्, चल् (लट्, लृट् लकारेषु)
 - 3) वर्णविच्छेदं कुरुतः (यथा= रामः= र् + आ + म् + अः)
चषकः, कपोतः, विद्यालयः, सिंहः, कृषकः, खनित्रम्, श्रमिका, भित्तिकम्, स्थानकम्,
पोषकाणि, वातायनम्, क्रीडनकम्, एकस्मिन्, प्रसन्ना, अस्माकम्, सिञ्चति, सिंहाः,
गृहम्, विद्यालयः, कृषकः, दीपकः, व्याघ्रः, ज्ञानी, मयूरः, रक्षकः ।
 - 4) कर्ता – तालिका लेखनम् कण्ठस्थीकरणं च।
 - 5) (i) विद्यालय-प्रार्थना संस्कृत भाषायां लेखनम् कण्ठस्थीकरणं च।
(ii) संस्कृत-छात्रप्रतिज्ञा संस्कृत भाषायां लेखनम् कण्ठस्थीकरणं च।
 - 6) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम् (01 page) अवश्यं पठन्तु ।
 - 7) संस्कृत-परियोजना-कार्यम् । [INDIVIDUAL]
 - 8) कारक लेखनम् कण्ठस्थीकरणं च।
- परियोजना कार्य – चित्राणि तथा नामानि**
दश वस्तूनां चित्राणि रचयित्वा तेषां नामानि लिखत ।

If common project not given by your class teacher.

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.

iii) Neat works are always appreciated.

*****All the Best*****



PM SHRI KENDRIYA VIDYALAYA , KALIMPONG
SUMMER VACATION'S HOME WORK (ग्रीष्मावकाश-
गृहकार्यम्)
SUBJECT : SANSKRIT Sub. Teacher : Suresh
Chandra bairwa

CLASS VII

- 1) धातुरूपलेखनं कण्ठस्थीकरणं च : भू, पठ् कृ, दृश् , स्था (पञ्च- लकारेषु)
- 2) शब्दरूपलेखनम् कण्ठस्थीकरणं च : अस्मद् , युष्मद्
- 3) संस्कृते संख्यावाचकान् लिखत । (01 से 50 तक)
- 4) शब्दरूपलेखनम् कण्ठस्थीकरणं च : राम, लता, फल लेखनम् कण्ठस्थीकरणं च।
- 5) तत्, एतत्, किम् त्रिषु लिंगेषु लेखनम् कण्ठस्थीकरणं च।
- 6) पाठस्य श्लोकान् स्मृत्वा स्वपुस्तिकायां लिखत।
- 7) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम् (01 page) अवश्यं पठन्तु ।
- 8) छात्रप्रतिज्ञां लिखित्वा स्मरन्तु। (In Sanskrit)
- 9) विद्यालय-प्रार्थनां लिखित्वा स्मरन्तु। (In Sanskrit)
- 10) कर्ता – तालिका लेखनम् कण्ठस्थीकरणं च।
- 11) कारक लेखनम् कण्ठस्थीकरणं च।

परियोजना कार्य –

वर्षा ऋतोः विषये पञ्च वाक्यानि संस्कृत भाषायां लेखनम् च।

If common project not given by your class teacher.

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.
- iii) Neat works are always appreciated.

*****All the Best*****



PM SHRI KENDRIYA VIDYALAYA , KALIMPONG
SUMMER VACATION'S HOME WORK (ग्रीष्मावकाश-
गृहकार्यम्)

SUBJECT : SANSKRIT Sub. Teacher : Suresh Chandra bairwa

CLASS VIII

- 1) धातुरूपलेखनं कण्ठस्थीकरणं च : पठ् , गम् , चल् , हस् (पञ्च- लकारेषु)
- 2) शब्दरूपलेखनम् कण्ठस्थीकरणं च : राम,लता,फल लेखनम् कण्ठस्थीकरणं च।
- 3) तत्, एतत्, किम् त्रिषु लिंगेषु लेखनम् कण्ठस्थीकरणं च।
- 4) शब्दरूपलेखनम् कण्ठस्थीकरणं च : अस्मद् , युष्मद्
- 5) कर्ता – तालिका लेखनम् कण्ठस्थीकरणं च।
- 6) कारक लेखनम् कण्ठस्थीकरणं च।
- 7) प्रतिदिनं संस्कृतपाठ्यपुस्तकस्य एकं पृष्ठम्(01 page) अवश्यं पठन्तु ।
- 8) छात्रप्रतिज्ञां लिखित्वा स्मरन्तु।(In Sanskrit)

9) विद्यालय-प्रार्थनां लिखित्वा स्मरन्तु। (In Sanskrit)

10) परियोजना कार्य – पर्यावरण-प्रदूषणम्

Instructions:

- i) All questions are compulsory.
- ii) Answers should be written in the HW Sanskrit Note Book.
- iii) Neat works are always appreciated.

*******All the Best*******

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOMEWORK

SESSION 2025-26

NAME OF TEACHER:- SN CHOUDHARY, PGT-HISTORY

CLASS-IX
SCIENCE

SUBJECT:-SOCIAL

1. Write an article on United Nation and NITI Aayog (about 350 words each)
2. Write short note on following topics:-
 - i. BR Ambedkar
 - ii. Rajendra Prasad
 - iii. Sardar Vallabhai Patel
 - iv. Subash Chandra Bose
3. Write Indian Union Territories, its capitals, Governors and Chief Ministers .
4. Write a note on India's Economy (400 words)
5. Read the first chapter of your history, pol science and Geography books and learn these chapters.
6. Draw a world map and mark the following countries:-
Germany, Austria, Italy, France, Spain, Portugal, Egypt, Iran, Russia, USA, England, Brazil,

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOME-WORK (2025-26)

SUBJECT-MATHS

CLASS-9TH

Instructions for Submission:

- Use Homework note for solving and don't write solutions from the google/internet.
- Graphs must be drawn on proper graph paper (if required).
- Submission Date: First day after summer vacation.
- All work must be handwritten.
- Marks will be awarded for neatness, completeness, and creativity.

1. Classify the following as rational or irrational numbers:
 $\sqrt{2}$, 1.5, 0.333..., $\sqrt{49}$, π , $-\frac{3}{4}$
2. Write five rational numbers between:
 - a) 1 and 2
 - b) -1 and 0
3. Represent $\sqrt{3}$ and $\sqrt{5}$ on the number line using geometrical construction. (*Use compass and scale.*)
4. Write the decimal expansions of:
 - a) $\frac{1}{8}$
 - b) $\frac{22}{7}$
 - c) $\frac{1}{3}$
5. True or False (with reason):
 - a) $\sqrt{2}$ is a rational number.
 - b) Every real number is either rational or irrational.
 - c) The product of two irrational numbers is always irrational.
6. Express the following as a rational number in $\frac{p}{q}$ form:
 - a) 0.666...

- b) 1.272727...
- c) 0.818181...
- 7. Insert three irrational numbers between $\sqrt{2}$ and $\sqrt{3}$
- 8. Draw a square root spiral bird on a Chart Paper.

HAPPY HOLIDAYS

Kendriya Vidyalaya Kalimpong Session 2025-26

Science Holiday Homework for Summer Vacation

Prepared by Arun Pratap Singh, PGT – Physics

Chapter 01: Matter in our Surroundings

1. Which state of matter has the least intermolecular space?
2. Which state of matter is easily compressible and why?
3. What happens to the particles of a substance when it is heated?
4. Define sublimation. Give an example of sublimation.
5. How does a solid change into a liquid on heating? Explain the process briefly.
6. Why do solids have a fixed shape but gases do not?
7. What is evaporation? How does it cause cooling? Give an example from daily life.
8. What factors affect the rate of evaporation?
9. Describe an activity to show that particles of matter are continuously moving.
10. Compare all three states of matter on the basis of:
 - i. Shape
 - ii. Volume
 - iii. Compressibility
 - iv. Intermolecular force
 - v. Intermolecular space

Case Study 01

It was a hot summer afternoon. Ravi was enjoying his favourite chocolate ice cream when his mother called him. He left the bowl on the table and ran inside. When he returned just five minutes later, the ice cream had turned into a puddle!

This made Ravi wonder:

- A. Why did the ice cream melt so fast?
- B. What is happening to the particles of the ice cream?
- C. Could this be reversed? If yes, how?

Case Study 02

One day, Ananya was watching a science-fiction movie where the hero walked through walls. She laughed and said, "*That's impossible!*" But then she began to wonder:

- A. **Why can't we walk through solid walls, but we can easily walk through air or swim in water?**
- B. **Is the difference just because of how "thick" things feel, or is there something happening at a deeper level?**

To investigate, Ananya decided to observe: A steel spoon, a bowl of water (liquid) and the air around her and she asked:

- C. Why is the spoon so rigid?
- D. Why does water take the shape of the bowl?

- E. Why can she wave her hand through air without resistance?

Case Study 03

Riya was helping her mother in the kitchen. She placed some ice cubes in a pan to melt them quickly. As she observed, she noticed something strange:

Even after heating for several minutes, the temperature of the ice stayed at 0°C — until all of it melted!

This puzzled Riya. *“If I’m heating it, shouldn’t the temperature increase immediately?”*

She decided to conduct a mini experiment at home:

She placed a thermometer in the pan with ice. She turned on the heat and took temperature readings every minute. She noted that the temperature **remained at 0°C** until the ice completely melted. Only **after** that did the temperature start rising.

1. Why didn’t the temperature increase even while heating?
2. Where did all the heat energy go?
3. What exactly was happening to the ice particles?

Chapter 07: Motion

11. Differentiate between scalar and vector quantities.
12. What is the difference between speed and velocity?
13. When is the acceleration of a body said to be negative?
14. Can a body have zero velocity and still be accelerating? Explain.
15. What does the slope of a distance-time graph represent?
16. What does a horizontal line on a velocity-time graph indicate?
17. What kind of motion has a curved distance-time graph?
18. Why is the motion of the moon around the Earth considered accelerated motion?
19. True or False: A body moving with constant speed always has constant velocity. Justify your answer.
20. Fill in the blank: Displacement can be _____ but distance is always positive.
21. A car covers 100 km in 2 hours. Calculate its average speed.
22. A bike accelerates from 10 m/s to 30 m/s in 5 seconds. Find its acceleration.
23. A train moves with a velocity of 60 km/h for 30 minutes. Find the distance covered.
24. A bus accelerates uniformly from rest to 20 m/s in 10 seconds. Find the acceleration and distance covered.
25. A ball is thrown vertically upward with a speed of 20 m/s. How high will it rise? (Take $g = 10 \text{ m/s}^2$)
26. What information can you gather from a velocity-time graph?
27. Sketch a distance-time graph for a body at rest, moving with constant speed, and accelerating.
28. Draw a velocity-time graph for: (i) Uniform acceleration (ii) Retardation (iii) Constant velocity.
29. From a velocity-time graph, how can you calculate: Acceleration and Displacement
30. A car moves 40 km north in 1 hour and then 30 km south in the next hour. Calculate:
 - a. Total distance
 - b. Displacement
 - c. Average speed
 - d. Average velocity
26. A body starts from rest and travels 200 m in 10 seconds under uniform acceleration. Calculate:
 - a. Final velocity
 - b. Acceleration
28. An object moving with uniform acceleration covers 5 m in 1st second and 15 m in 3rd second. Find the initial velocity and acceleration.
29. A train is moving with a speed of 72 km/h. It is brought to rest by applying brakes which produce a uniform acceleration of -0.5 m/s^2 . Find:
 - a. Time taken to stop
 - b. Distance travelled during stopping
30. An object is thrown upwards with a velocity of 25 m/s. Find:
 - a. Time to reach maximum height

- b. Maximum height attained
- c. Total time of flight

Case Study 04

Ramesh lives in a town 30 km away from school. One day, he took his father's electric scooter to school. He noted something interesting on the dashboard:

"I travelled 30 kilometres in exactly 1 hour, and my speed never changed—it stayed at 30 km/h the whole time."

This made Ramesh curious:

- A. What does it mean to move without changing speed?
- B. How is this kind of motion different from when he walks or takes the bus?

He decided to keep a log of his ride:

Time (minutes)	Distance Covered (km)
0	0
15	7.5
30	15
45	22.5
60	30

From this log help Ramesh to answer the following questions:

- C. What is the average speed of the scooter during the ride?
- D. Was the motion of the scooter uniform or non-uniform? Justify.
- E. How would the graph of this motion look on a distance-time graph?
- F. If the scooter had gone faster for the first 30 minutes and slower for the next 30, would it still be uniform motion?

Plot a **distance-time graph** using Ramesh's data: Ask yourself:

- G. Is the graph a straight line?
- H. What does the slope of the line represent?

Case Study 05

During a visit to the amusement park, Aanya and her friends rode the giant Ferris wheel. While riding, Aanya noticed:

"Even though we're going at a constant speed, I still feel like I'm being pushed sideways at times!"

This puzzled her. She thought:

- A. If speed is constant, why do I feel acceleration?
- B. Are we really moving uniformly?
- C. What's different about this kind of motion?
- D. Is the motion of the Ferris wheel uniform or non-uniform? Why?
- E. What is changing in circular motion—speed or velocity? Explain.
- F. Why is uniform circular motion called accelerated motion, even though the speed is constant?
- G. What is centripetal force, and in the case of the Ferris wheel, where does it come from?
- H. Can you experience uniform circular motion in your daily life? Give 2 examples.

Case Study 06

Meera went for a morning walk in a rectangular park. The park was 100 m long and 50 m wide. She walked along the boundary, starting from the southwest corner, and completed one full round.

When she came back home, her brother asked:

"How far did you walk, and what's your displacement?"

Meera replied, "I walked a lot, but I ended up where I started... So, my displacement is zero?"

Her brother was confused: "**How can you walk and still have zero displacement?**"

- A. Why is distance never zero for any actual motion?
- B. In what type of motion can displacement be zero but distance non-zero?
- C. If Meera had walked only from the southwest to the northeast corner diagonally, what would her displacement be?

- D. Can distance ever be equal to displacement?
- E. If Meera walked half the park's boundary (from southwest to northeast corner), what would be: (i) Distance? (ii) Displacement?
- F. Activity - Draw the rectangle by choosing suitable scale for $100\text{ m} \times 50\text{ m}$ on paper.
 - i. Mark Meera's path along the boundary.
 - ii. Show displacement with a straight arrow from start to end.
 - iii. Compare the path length (distance) with the arrow (displacement).

**Content Developed by
Arun Pratap Singh, PGT – Physics
KV Kalimpong**

SUMMER HOLIDAY HOMEWORK (2025-26)

CLASS IX

ENGLISH

1) “English in My Life” Journal

Task:

Keep a 7-day journal on how you use English outside the classroom:

- i) Conversations
- ii) Songs you listened to
- iii) Shows watched
- iv) New words learned

Add drawings, pictures, or screenshots if possible.

2) Picture Prompt Story Writing

Task:

Choose a photograph from a newspaper or magazine and write:

- i) A short story (200–300 words) based on it
- ii) A suitable title
- iii) One moral or message from the story

3) Comic Biography of a Famous Author

Task:

Create a comic strip telling the life story of a famous English writer (like Ruskin Bond, R.K. Narayan, Roald Dahl).

Include:

- i) Key life events
- ii) Their popular works
- iii) Dialogue bubbles with quotes

(AI Project Cycle – Class 9 Assignment)

The project needs to be done after you finish all the classworks, class notes and homeworks completion on the AI exercise copy itself.

Objective:

Implement all five steps of the AI Project Cycle through a real-world problem of your choice. This assignment will help you understand how Artificial Intelligence projects are planned and executed.

Instructions:

Step 1: Problem Scoping

Identify a real-world problem around you that can be solved using AI.

Clearly define:

What is the problem?

Who are the stakeholders?

What is the goal of the AI project?

What are the potential benefits?

Example: "Helping students choose subjects based on their interests and performance."

Step 2: Data Acquisition

Collect relevant data that can help solve your problem.

You can:

Create a survey

Use publicly available datasets

Collect data manually (observations, interviews, records)

Deliverable: Present your data in a table or spreadsheet format.

Step 3: Data Exploration

Analyze your data:

Find trends or patterns

Use graphs and charts to visualize your data

Clean the data if necessary (remove duplicates, correct errors)

Deliverable: Include 2–3 visual representations of your data.

Step 4: Modelling

Choose a suitable AI model approach (Rule-based, Machine Learning, etc.).

Describe:

What kind of model are you using?

How will it make predictions or decisions?

Why did you choose this model?

Optional Tools: Teachable Machine, Scratch, or any beginner-friendly AI platform.

Step 5: Evaluation

Test your model with sample data.

Evaluate how accurate or useful the results are.

Reflect:

Was your goal achieved?

What were the challenges?

How can it be improved?

Submission Requirements:

A written report (typed or handwritten neatly).

Visual aids (charts, graphs, screenshots of models).

KENDRIYA VIDYALAYA KALIMPONG

SUMMER HOLIDAY HOMEWORK

CLAS: X

SUBJECT: SOCIAL SCIENCE

1. Revision: Geography Chapter-1 (Resources and Development)

Economics Chapter-1 (Development)

Civics Chapter-1 (Power Sharing)

2. Project Work (As per the assigned topics).

Sl. No.	Name of the Student	Project
1	Abhinay Gurung	Consumer Awareness
2	Aadhar Chettri	Social Issues (Child Labour)
3	Alekh Kumar	Sustainable Development
4	Anushree Chamling	Consumer Awareness
5	Awantika Basor	Social Issues (Gender Inequality)
6	Ethan Lepccha	Sustainable Development
7	K. Lauretfella	Consumer Awareness
8	Manav Das Basor	Social Issues (Child Labour)
9	Mohit Dhaniwal	Sustainable Development
10	Nitish Kumar Sharma	Consumer Awareness
11	Praketi Chettri	Social Issues (Gender Inequality)
12	Rachita Thapa	Sustainable Development
13	Roli Tiwari	Consumer Awareness
14	Rumong Lepcha	Social Issues (Child Labour)
15	Saipriya Cheetri	Sustainable Development
16	Sakina Khatoon	Consumer Awareness
17	Sanju Chettri	Social Issues (Gender Inequality)
18	Treepti Gurung	Sustainable Development

KENDRIYA VIDYALAYA KALIMPONG

SUMMER HOLIDAY HOMEWORK

CLAS: XII-B

SUBJECT: GEOGRAPHY

Theory: Revision of the following chapters:

1. Human Geography- Nature and Scope (Book-1)
2. Population: Distribution, Density and Growth (Book-1)
3. Indian Population: Distribution, Density, Growth and Composition (Book-2)

Practical Work: Chapter-1 (Data- Its Source and Compilation)

Chapter-2 (Data Processing)

Q.1. Prepare a frequency distribution table with the help of the data set given in Table: 1.1.

Q.2. With the help of the frequency distribution table draw frequency polygon and ogive.

Table: 1.1 (Score of 50 Students in Geography Paper)

34	12	66	49	41	40	81	34	26	67
42	9	47	56	88	62	73	19	36	56
57	74	59	44	75	55	62	81	55	77
29	86	62	23	79	43	49	92	39	72
18	94	78	37	80	38	26	54	52	65

Q.3. Compute the average wage rate of factory workers using data given in Table 2.1.

Table: 2.1 (Wage rate of factory workers)

Daily Wage (in Rs.)	No. of Workers
200 - 240	7
240 - 280	12
280 - 320	16
320 - 360	10
360 - 400	5

Q.4. Calculate the median rainfall in Kalimpong District in the month of June, 2024 using data given in Table 2.2.

Table: 2.2 (Rainfall in Kalimpong District in June month, 2024)

Rainfall (in mm)	No. of Days
1000 - 1200	3
1200 - 1400	6
1400 - 1600	8
1600 - 1800	7
1800 - 2000	6

**KV KALIMPONG-CLASS 10- SCIENCE –
SUMMER VACATION HOLIDAY HOMEWORK**

Chemical Reactions and Equations (15 PYQs)

1. Write the balanced chemical equation for the reaction between zinc and dilute sulphuric acid. (2019)
2. What happens when copper is heated in air? Write the balanced chemical equation. (2018)
3. Define a redox reaction with an example. (2017)
4. Write the balanced chemical equation for the thermal decomposition of calcium carbonate. (2016)
5. Why is respiration considered an exothermic reaction? (2015)
6. What is a combination reaction? Give an example with a balanced equation. (2014)
7. Why does a reddish-brown deposit form on iron when placed in copper sulphate solution? (2013)
8. State one example of a chemical reaction from everyday life which is both endothermic and decomposition in nature. (2012)
9. What change will you observe if white silver chloride is kept in sunlight? Write the chemical reaction involved. (2011)
10. What are the different types of chemical reactions? Explain with examples. (2010)
11. Why do we apply paint on iron articles? (2009)
12. Write the balanced chemical equation for the reaction between barium chloride and sodium sulphate. What type of reaction is this? (2008)
13. Identify the type of reaction: $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$ (2007)
14. Define corrosion. What are the conditions necessary for rusting of iron? (2006)
15. Why is photosynthesis considered an endothermic reaction? (2005)

Life Processes (15 PYQs)

16. What is the role of hydrochloric acid in the stomach? (2019)
17. Define photosynthesis. Write its balanced chemical equation. (2018)
18. How does the exchange of gases occur in plants? (2017)
19. Describe the process of digestion of food in the human stomach. (2016)
20. Name the organs of the human excretory system. Briefly state the function of each. (2015)
21. What is the role of bile juice in digestion? (2014)
22. Describe the structure and function of nephron. (2013)
23. Compare respiration in aerobic and anaerobic organisms. (2012)
24. Explain the role of alveoli in the lungs. (2011)
25. How are the lungs designed to maximize the exchange of gases? (2010)
26. Explain how water and minerals are transported in plants. (2009)

27. What is the function of blood in human beings? (2008)
28. Write two differences between autotrophic and heterotrophic modes of nutrition. (2007)
29. Draw a well-labelled diagram of human digestive system. (2006)
30. Describe the process of urine formation in kidneys. (2005)

KENDRIYA VIDYALAYA , KALIMPONG

SUMMER VACATION'S HOME WORK (□□□□□□□□□□-□□□□□□□□□□)

SUBJECT : COMPUTER SCIENCE Sub. Teacher : SURENDRA KUMAR MEHRA

CLASS-XII

- Q1. Solve last 4 years CBSE sample papers all questions related to Review of python and function.
- Q2. Design a project in two groups first group make a project on file handling and second group prepare a project on connectivity of python and MYSQL.
- Q3. Note down all the practical's related to these topics in practical note book.

CLASS-X

- Q1. Solve last 4 years CBSE sample papers all questions related to AI Introduction, applications of AI, and domains of AI in home work note book.
- Q2. Prepare a project as per CBSE guidelines related to sustainable of goals in a Group (Maximum 3 students in each group).
- Q3. Read Communication Skills-II , Self-Management Skills-II , Entrepreneurial Skills-II, ICT Skills-II.

SUMMER HOLIDAY HOMEWORK (2025-26)

CLASS X

ENGLISH

PROJECT WORK FOR CLASS X

1. Choose any poem/prose/play of your choice.
2. Write down the summary.
3. Write down the message and the theme.
4. Relate the poem/prose/play to

- i) other various disciplines
- ii) real life situation

INSTRUCTIONS:

1. The project is to be done in the **practical notebook** (one side plain and one side ruled).
2. Everything must be **hand written** including the cover page.
3. It has to be **15-20 pages**.
4. The **sequence** should be:
 - a) Front page
 - b) Certificate
 - c) Acknowledgement
 - d) Content
 - e) Project Content
 - f) Bibliography
5. Necessary **pictures** to be pasted on the blank side.

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOME-WORK (2025-26)

SUBJECT-MATHS

CLASS-10TH

Instructions for Submission:

- Use Homework notes for solving and don't write solutions from the google/internet.
- Submission Date: First day after summer vacation.
- All work must be handwritten.
- Marks will be awarded for neatness, completeness, and creativity.

1. Prove that:
 - a) $\sqrt{2}$ is an irrational number.
 - b) $\sqrt{3}$ is an irrational number.
2. For the quadratic polynomial $x^2 - 5x + 6$, find its zeros and verify the relationship between the zeros and the coefficients.
3. Prove that $3 + 2\sqrt{5}$ is irrational.
4. Prove that $7\sqrt{2}$ is irrational.
5. Find the zero(s) of the following polynomials:
 - a) $x^2 - 7x + 10$
 - b) $x^2 + 2x - 15$
 - c) $x^2 - 9$

Do complete these Lab Practical in Separate Practical File.

1. To draw the graph of a quadratic polynomial and observe:
 - a) The shape of the curve when the coefficient of x^2 is positive.
 - b) The shape of the curve when the coefficient of x^2 is negative.
 - c) Its number of zeroes.
2. To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
3. To identify Arithmetic Progressions in some given lists of numbers (patterns).
4. To find the sum of first n natural numbers.
5. To establish a formula for the sum of first n terms of an Arithmetic Progression.
6. To verify the distance formula by graphical method.

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□□□□ **2025-26**

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3. 請用繁體中文回答下列問題：「臺灣的民主」與「臺灣的經濟」有何關係？請用繁體中文回答。

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KV KALIMPONG -Summer Vacation XII- Chemistry

Holiday Homework (2025-26)

PART A: SOLUTIONS – 15 Questions

1. Define the terms: mole fraction, molarity, molality, and parts per million.
2. State Raoult's law for a solution containing a non-volatile solute.
3. What are ideal and non-ideal solutions? Give examples.
4. Explain the effect of temperature on solubility of gases in liquids.
5. A solution contains 5 g of a solute in 100 g of water. Calculate its molality.
6. Define vapor pressure. How is it affected in a solution of non-volatile solute?
7. Derive the expression for elevation in boiling point.
8. Calculate the boiling point of a solution containing 0.2 mol of a non-volatile solute in 500 g water. ($K_b = 0.52 \text{ K kg/mol}$)
9. What is depression in freezing point? Derive the formula used.
10. Calculate the freezing point of a solution containing 0.1 mol of glucose in 1 kg water. ($K_f = 1.86 \text{ K kg/mol}$)
11. What is the van't Hoff factor? Why is it important?
12. Explain the abnormal molar mass with a suitable example.
13. What is osmosis? How is osmotic pressure calculated?
14. Give two real-life applications of colligative properties.
15. What is reverse osmosis? Mention one use of this process.

PART B: ELECTROCHEMISTRY – 15 Questions

16. Define electrochemical cell. Give one example.
17. Differentiate between galvanic and electrolytic cells.
18. What is a salt bridge? State its function.
19. Define standard electrode potential.
20. What is the standard hydrogen electrode (SHE)?
21. Write the Nernst equation and explain each term.
22. Calculate the EMF of the cell: $\text{Zn(s)} \mid \text{Zn}^{2+}(0.1 \text{ M}) \parallel \text{Cu}^{2+}(1 \text{ M}) \mid \text{Cu(s)}$, given $E^\circ \text{Zn}^{2+}/\text{Zn} = -0.76 \text{ V}$, $E^\circ \text{Cu}^{2+}/\text{Cu} = +0.34 \text{ V}$
23. What is a concentration cell? Give an example.
24. Define conductivity and molar conductivity. Write their units.
25. How does conductivity vary with dilution for strong and weak electrolytes?
26. State Kohlrausch's Law. How is it used to determine the degree of dissociation?
27. Calculate the limiting molar conductivity of acetic acid using Kohlrausch's law:
 - $\Lambda^\circ(\text{CH}_3\text{COONa}) = 91$
 - $\Lambda^\circ(\text{HCl}) = 426$
 - $\Lambda^\circ(\text{NaCl}) = 126$
28. State Faraday's First Law of Electrolysis.
29. A current of 5 A is passed through molten CaCl_2 for 10 minutes. Calculate the mass of Ca deposited.
30. Compare and contrast primary and secondary batteries with examples.

BONUS TASK – MIND MAP / FLOWCHART (To be drawn)

31. Draw a mind map for Alcohol Reactions: Oxidation, Dehydration, Esterification, Halogenation, Lucas Test.
32. Draw a mind map for Phenol Reactions: Bromination, Nitration, Reimer-Tiemann Reaction, Kolbe Reaction, Coupling Reaction.
33. Draw a mind map for Ether Reactions: Williamson Synthesis, Acidic Cleavage (HI, HBr), Electrophilic Substitution in Aromatic Ethers.

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KENDRIYA VIDYALAYA, KALIMPONG

SUMMER VACATION'S HOME WORK (□□□□□□□□□□-□□□□□□□□□□)

SUBJECT : COMPUTER SCIENCE Sub. Teacher : SURENDRA KUMAR MEHRA

CLASS-XII

- Q1. Solve last 4 years CBSE sample papers all questions related to Review of python and function.
- Q2. Design a project in two groups first group make a project on file handling and second group prepare a project on connectivity of python and MYSQL.
- Q3. Note down all the practical's related to these topics in practical note book.

CLASS-X

- Q1. Solve last 4 years CBSE sample papers all questions related to AI Introduction, applications of AI, and domains of AI in home work note book.
- Q2. Prepare a project as per CBSE guidelines related to sustainable of goals in a Group (Maximum 3 students in each group).
- Q3. Read Communication Skills-II , Self-Management Skills-II , Entrepreneurial Skills-II, ICT Skills-II.

KENDRIYA VIDYALAYA KALIMPONG

Class : 12 A,B

Summer Vacation Homework 2025-26

1. **Fitness Journal** : Maintain a fitness journal to track your daily physical activity, exercise and sports participation.

2. **Case Study:** Analyse a case study of a famous athlete or sports team, examining their training methods, strategies and performance.

KENDRIYA VIDYALAYA KALIMPONG

HOLIDAY H.W. FOR CLASS XII A

SUBJECT:- MATHS

(2025-26)

1. PYQ OF CHAPTER 1, 2 & 3 OF SET- 1 FROM ALSSCE (CBSE)- OF LAST 03 YEARS (23,24,25.)

2. ACTIVITIES - (TO BE DONE IN A SEPARATE ACTIVITY NOTE-BOOK)

1. TO VERIFY THAT THE RELATION R IN THE SET L OF ALL LINES IN A PLANE, DEFINED BY $R = \{(L, M) : L \parallel M\}$ IS AN EQUIVALENCE RELATION.
2. TO DEMONSTRATE A FUNCTION WHICH IS NOT ONE-ONE BUT IS ONTO.
3. TO DRAW THE GRAPH OF $\sin^{-1} x$ USING THE GRAPH OF $\sin x$ AND DEMONSTRATE THE CONCEPT OF MIRROR REFLECTION (ABOUT THE LINE $y = x$).
4. TO ESTABLISH A RELATIONSHIP BETWEEN COMMON LOGARITHM (TO THE BASE 10) AND NATURAL LOGARITHM (TO THE BASE e) OF THE NUMBER x .
5. TO FIND ANALYTICALLY THE LIMIT OF A FUNCTION $f(x)$ AT $x = c$ AND ALSO TO CHECK THE CONTINUITY OF THE FUNCTION AT THAT POINT

KENDRIYA VIDYALAYA KALIMPONG

SUMMER BREAK HOLIDAY HOMEWORK

Class-XIIA.

Subject- Biology

1. If a plant is wind-pollinated, what floral adaptations would you expect?
2. Apply your understanding to explain why seedless fruits are produced in some plants.
- 3.. A plant species depends on bees for pollination. What might happen if bee populations decline?

4. How can artificial pollination be useful in agriculture?
5. Why are seed banks important in conserving plant biodiversity?
6. Why do reproductive technologies raise ethical issues?
7. Describe the changes in hormone levels during pregnancy.
8. Interpret the role of FSH and LH in reproduction.
9. How would an imbalance in estrogen affect the menstrual cycle?
10. How apomixis is different from polyembryony? Mention the advantage of apomixis in agriculture.

CLASS – XII ECONOMICS PROJECT TOPICS 2025-26

Summer Vacation Homework

ROLL NO.	NAME	TOPIC
1	AKANGCHA PRASAD	AMRIL KAAL : EMPOWERED AND INCLUSIVE ECONOMY
2	ANUSHKA RAI	GOVERNMENT BUDGET AND ITS FUNCTIONS
3	KLECEI LEPCHA	RAIN WATER HARVESTING – A SOLUTION TO WATER CRISIS
4	KOMAL KUMARI	MINIMUM WAGE RATE – APPROACH AND APPLICATION
5	MANSI BASOR	INCLUSIVE GROWTH STRATEGY
6	MINGMA ZIMBA	LIVESTOCK – BACKBONE OF RURAL INDIA
7	NAINA RAMUDAMU	MONETARY POLICY COMMITTEE AND ITS FUNCTIONS
8	PRATIVA MUKHIA	SELF HELP GROUP
9	PRIYANI BASOR	WASTE MANAGEMENT IN INDIA – NEED OF THE HOUR
10	SANIDIYA THAPA	SUSTAINABLE DEVELOPMENT GOALS
11	SIWANGI THAKUR	VERTICAL FARMING – AN ALTERNATE WAY
12	SNEHA PARIYAR	ORGANIC FARMING – BACK TO THE NATURE
13	SUBASNA RAI	

14	AARAV PRADHAN	ROLE OF RBI IN CONTROL OF CREDIT
15	ARYAN KUMAR	CONTEMPORARY EMPLOYMENT SITUATION IN INDIA
16	CARMEL LEPCHA	MICRO AND SMALL SCALE INDUSTRIES
17	NISCHAL BHUJEL	HUMAN DEVELOPMENT INDEX
18	PRITAM CHHETRI	MAKE IN INDIA – THE WAY HEAD
19	RAUNAK DAS	DISINVESTMENT POLICY OF THE GOVERNMENT
20	RHYTHEM CHETTRI	CURRENCY WAR – REASONS AND REPERCUSSIONS
21	ROMAN LEPCHA	SARVA SHIKSHA ABHIYAN
22	THUPDEN LEPCHA	GOLDEN QUADRILATERAL

KENDRIYA VIDYALAYA KALIMPONG

SUMMER VACATION HOMEWORK

SESSION 2025-26

NAME OF TEACHER:- SN CHOUDHARY, PGT-HISTORY

CLASS-IX
SCIENCE

SUBJECT:-SOCIAL

1. Write an article on United Nation and NITI Aayog (about 350 words each)
2. Write short note on following topics:-
 - i. BR Ambedkar
 - ii. Rajendra Prasad
 - iii. Sardar Vallabhai Patel
 - iv. Subash Chandra Bose
3. Write Indian Union Territories, its capitals, Governors and Chief Ministers.
4. Write a note on India's Economy (400 words)
5. Read the first chapter of your history, pol science and Geography books and learn these chapters.
6. Draw a world map and mark the following countries:-
Germany, Austria, Italy, France, Spain, Portugal, Egypt, Iran, Russia, USA, England, Brazil,

CLASS- VII
SCIENCE

SUBJECT:-SOCIAL

1. Draw a physical map of india and mark the following:-
Himalayas, Northern Plains, Plateau, Thar Desert, Coastal Areas and their names and Islands.
also mark the major rivers of india on the same map.
2. Write Short note on following:-
Mahatma Gandhi, Jawahar Lal Nehru, Subash Chandra Bose, Sardar Vallabhai Patel
3. Write an article on Harappan Civilisation you have studied in class 6. (350 words)
4. Write short note on following:- (100 words each)
Reserve Bank of India, Supreme Court of India, Indian Parliament,
5. Read the chapter 1 of your Social Science book and learn it.

CLASS- XII

SUBJECT:-HISTORY

1. Read the chapters 1 to 3 of your history book and learn it.
2. Complete the project work assigned to you.
3. Prepare 50 MCQs from the chapter 1 to 3.
4. prepare 10 important questions along with answers from chapter 1 to 3 each question's answer must be in 250 words.
5. Draw or paste a political map of India and mark the followings:-

Sixteen Mahajan padas, Major Harappan sites, Provincial Administration Centres of Mauryas

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Kendriya Vidyalaya Kalimpong

Class - XII

ENGLISH HOLIDAY HOMEWORK

“Learn everything you can, anytime you can, from anyone you can; there always will come a time when you will be grateful you did.” -Sarah Caldwell

- Prepare a Schedule and follow it during holidays. It will help you become a good time manager.
 - Give time to pursue your hobby as we all need ‘Me Time’
 - Limit the use of gadgets and use the time saved in reading Newspaper/Books.
 - Give prime importance to your Health. Eat lots of fruits and vegetables.
 - Don’t forget exercise and practice yoga to improve your stamina.
 - Pledge to “ Eat Right (Less Sugar, Less Oil, Less Salt and Less Outside Food)
 - Put in efforts to improve your vocabulary- Add one word per day to your vocabulary
-

1. Prepare Collage on the poem My Mother at Sixty Six using appropriate pictures.

Use A4 Sheets

Parameters- Originality of idea, Creativity and Presentation.

Being Innovative with ideas-

What to do? What could be the alternate ending of the lesson The Third Level

Where to do? In English Notebook

Parameters- Creativity, content and appropriateness

Within 300 words.

Read any one chapter of your choice and write the review.

A) Lost Spring

B) The Tiger King

What to do? Write the review of the lesson in 200-250 words keeping in mind the given aspects.

- **Information about the writer**

Summary

- **Favourite character and his/her role in the story**
- **Analysis of the story**

Where to do? In English notebook.

Sl. No.	Name of the Student	Project
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Parameters for Assessment:- Content, language and accuracy.

KENDRIYA VIDYALAYA KALIMPONG

SUMMER HOLIDAY HOMEWORK

CLAS: X

SUBJECT: SOCIAL SCIENCE

1. Revision: Geography Chapter-1 (Resources and Development)

Economics Chapter-1 (Development)

Civics Chapter-1 (Power Sharing)

2. Project Work (As per the assigned topics).

1	Abhinay Gurung	Consumer Awareness
2	Aadhar Chettri	Social Issues (Child Labour)
3	Alekh Kumar	Sustainable Development
4	Anushree Chamling	Consumer Awareness
5	Awantika Basor	Social Issues (Gender Inequality)
6	Ethan Lepccha	Sustainable Development
7	K. Lauretfella	Consumer Awareness
8	Manav Das Basor	Social Issues (Child Labour)
9	Mohit Dhaniwal	Sustainable Development
10	Nitish Kumar Sharma	Consumer Awareness
11	Praketi Chettri	Social Issues (Gender Inequality)
12	Rachita Thapa	Sustainable Development
13	Roli Tiwari	Consumer Awareness
14	Rumong Lepcha	Social Issues (Child Labour)
15	Saipriya Cheetri	Sustainable Development
16	Sakina Khatoon	Consumer Awareness
17	Sanju Chettri	Social Issues (Gender Inequality)
18	Trepti Gurung	Sustainable Development

KENDRIYA VIDYALAYA KALIMPONG

SUMMER HOLIDAY HOMEWORK

CLAS: XII-B

SUBJECT: GEOGRAPHY

Theory: Revision of the following chapters:

1. Human Geography- Nature and Scope (Book-1)

2. Population: Distribution, Density and Growth (Book-1)

3. Indian Population: Distribution, Density, Growth and Composition (Book-2)

Practical Work: Chapter-1 (Data- Its Source and Compilation)

Chapter-2 (Data Processing)

Q.1. Prepare a frequency distribution table with the help of the data set given in Table: 1.1.

Q.2. With the help of the frequency distribution table draw frequency polygon and ogive.

Table: 1.1 (Score of 50 Students in Geography Paper)

34	12	66	49	41	40	81	34	26	67
42	9	47	56	88	62	73	19	36	56
57	74	59	44	75	55	62	81	55	77
29	86	62	23	79	43	49	92	39	72
18	94	78	37	80	38	26	54	52	65

Q.3. Compute the average wage rate of factory workers using data given in Table 2.1.

Table: 2.1 (Wage rate of factory workers)

Daily Wage (in Rs.)	No. of Workers
200 - 240	7
240 - 280	12
280 - 320	16
320 - 360	10
360 - 400	5

Q.4. Calculate the median rainfall in Kalimpong District in the month of June, 2024 using data given in Table 2.2.

Table: 2.2 (Rainfall in Kalimpong District in June month, 2024)

Rainfall (in mm)	No. of Days
1000 - 1200	3
1200 - 1400	6
1400 - 1600	8
1600 - 1800	7
1800 - 2000	6

Kendriya Vidyalaya Kalimpong

Physics Holiday Homework

Investigatory Project for CBSE AISSCE 2026

CLASS XII

Instructions:

- Students are instructed to report the progress of their project to teacher fortnightly.
- During summer vacation, students will plan on their own how to achieve the goals of the project allotted to them. They will read, collect background knowledge from textbooks and gather information related to their project and prepare detailed study on a separate rough notebook with observations and the findings. The same is to be reported to teacher for verification after summer vacation.
- After verification of the content of your work, you may start preparing your project report.

Students are instructed to make an investigatory project on the topic allotted to you for **CBSE AISSCE 2026** (see the list below, here Serial No is your Roll No and the project written against is allotted to you):

RN	Student Name	Investigatory Project Allotted
1	AAROM ADHIM LEPCHA	To study the nature of magnetic field around a current coil. https://phet.colorado.edu/sims/html/magnets-and-electromagnets/latest/magnets-and-electromagnets_all.html
2	ABHINAY BISWAKARMA	Determine how changing the parameters of the optics (radius of curvature, index of refraction) for a lens affects where the image is formed and how it appears (magnification, brightness, and inversion) https://phet.colorado.edu/sims/html/geometric-optics/latest/geometric-optics_all.html
3	AWANTIKA CHHETRI	Compare power factors of different loads (resistive, capacitive, inductive) in an AC circuit. https://phet.colorado.edu/sims/html/circuit-construction-kit-ac/latest/circuit-construction-kit-ac_all.html
4	DIKSHA TAMANG	Study the variables that will affect the resistance and resistivity. https://phet.colorado.edu/en/simulations/resistance-in-a-wire
5	HARSHIKA THAKUR	To simulate the photoelectric effect and study how stopping potential varies with frequency and verify the threshold frequency concept and analyse energy and frequency relationship using Einstein's photoelectric equation. https://phet.colorado.edu/sims/cheerpi/photoelectric/latest/photoelectric.html?simulation=photoelectric
6	JEDIDAH NOOR RONGONG	Study Faraday's laws of electromagnetic induction and investigate for the conditions responsible for induction phenomenon. https://phet.colorado.edu/sims/html/faradays-electromagnetic-lab/latest/faradays-electromagnetic-lab_all.html

7	KHUSHI KUMARI	Study the series combination of three resistors and verify the formula of net resistance in series combination. https://phet.colorado.edu/sims/html/circuit-construction-kit-dc-virtual-lab/latest/circuit-construction-kit-dc-virtual-lab_all.html
8	LEEONG TSHERING LEPCHA	Construct a series LCR-Circuit and observe resonance in an AC circuit, the factors that affect it and determine the resonant frequency for that circuit. https://phet.colorado.edu/sims/html/circuit-construction-kit-ac/latest/circuit-construction-kit-ac_all.html
9	MUKESH RAJAK	Study the variation of electric field with distance from a point charge and investigate the validity of superposition principle in case of multiple electric field in a charge configuration. https://phet.colorado.edu/sims/html/charges-and-fields/latest/charges-and-fields_all.html
10	OJASVEE SUBBA	Investigate how different decays will change the nucleons in the nucleus. https://phet.colorado.edu/sims/html/build-a-nucleus/latest/build-a-nucleus_all.html
11	RICKDEN DUKPA	Determine how changing the parameters of the optics (radius of curvature, index of refraction) for a mirror affects where the image is formed and how it appears (magnification, brightness, and inversion) https://phet.colorado.edu/sims/html/geometric-optics/latest/geometric-optics_all.html
12	ROUNAK GUPTA	Construct a simple AC generator and study the effect of rotation speed on induced voltage and how the number of turns in a coil affects the output voltage of an AC generator. https://phet.colorado.edu/sims/html/generator/latest/generator_all.html
13	SUMEHRAN CHHETRI	Study the relationship between current and voltage in an RLC series circuit. https://phet.colorado.edu/sims/html/circuit-construction-kit-ac/latest/circuit-construction-kit-ac_all.html
14	TANISHA BASOR	Study the variation of magnetic field strength with distance from a bar magnet. https://phet.colorado.edu/sims/html/faradays-electromagnetic-lab/latest/faradays-electromagnetic-lab_all.html
15	UPARAJ GURUNG	To experimentally verify the laws of reflection and refraction using laser light and different materials and Explain how light bends at the interface between two media and what determines the angle. https://phet.colorado.edu/sims/html/bending-light/latest/bending-light_all.html
16	VAISHNAVI GUPTA	Experimentally verify and describe how the speed and wavelength of light changes in different media and investigate the effect of changing wavelength on the angle of refraction. https://phet.colorado.edu/sims/html/bending-light/latest/bending-light_all.html
17	EMUNAH SIMICK LEPCHA	Investigate on how the current will change when parameters such as resistance and voltage are varied. https://phet.colorado.edu/sims/html/ohms-law/latest/ohms-law_all.html

These projects are **measurable, investigatory, and suitable for practical or simulation-based exploration**. Therefore, the students are to use the given link to perform virtual labs/simulations.

How to write the project report?

- A. Project report should contain at least **35 pages (A4 & Unruled**, white or coloured but with no fancy borders) in total.
- B. Project report should be stapled only (**Do not use plastic files**)
- C. In the report, the pages should be in the following sequence:
 - 1. Cover page
 - 2. Aim
 - 3. Certificate (to be signed by internal examiner, external examiner and principal)
 - 4. Acknowledgement
 - 5. Index
 - 6. Theory – methodology with observations – Hand Written
 - 7. Conclusion/Result – Hand Written
 - 8. References
 - 9. Teacher's Remark (Should be left blank)

Last date to submit the investigatory project report will be Monday i.e. Sept 01, 2025.

Arun Pratap Singh
PGT – Physics, KV Kalimpong