KENDRIYA VIDYALAYA CHAPRA
SUMMER VACATION HOME WORK
(9th May to 17th June)

Class-IX 07/05/2025

English

1. **Mention all the types of tenses with 5 examples each.**
2. **Write the summary of these chapters.**
   (a) The Fun they had (b) The Road not taken
   (C) The lost Child
3. **You paid a visit to an 'Old Age Home' with other N.S.S. Volunteers. Using the hints given below together with your own ideas, make a diary entry of what you saw and experienced there.**
   Hints: • Old home • Mostly senior citizens above 60 • Peaceful surroundings • Spacious • Clean rooms and baths • Regular Medical check-ups • a good library • Means of recreation • A home away from home.
4. **One of your friends, Raman/Rima, is very gentle and polite to you. You regard him as your best friend. Describe him/her in a Paragraph in about 100-120 words.**
5. **Write definition of 5 poetic devices (Figure of speech) with examples.**
6. **Write & learn 50 verb forms (present form V1, Past form V2 and Past participle form V3) and memorize them.**
7. **Read English newspaper/English comic/English stories regularly.**
8. **Learn and revise all the chapters of 'Beehive' and 'Moments' which you have been taught so far.**

HINDI

1.यात्रा वृतांत ग्रीष्मकालीन अवकाश में की गई यात्रा के बारे में एक यात्रा वृतांत लिखे। आप वृतांत यात्रा की शुरुआत से लेकर वापसी तक के अनुभवों को शामिल कर सकते है।

2. प्रिय पुस्तक पर पुस्तक समीक्षा गर्मी की छुट्टियों में पढ़ी गई अपनी प्रिय हिंदी कहानी/पुस्तक पर समीक्षा लिखें।
(पुस्तक का नाम, लेखक, कहानी का सार, क्या अच्छा लगा, क्या नया सीखा आदि।)

3.निम्न दो विषयों पर लघुकथा तैयार कीजिए- i) मेहनत का फल अच्छा होता है ii) ईमानदारी सबसे बड़ा धन है

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

5. निम्नलिखित विषयों पर अनुच्छेद लिखिए
(क) मेरा प्रिय विषय- हिंदी (ख)आपके जीवन का लक्ष्य पाने में विद्यालय का योगदान (ग) ग्रीष्मावकाश का सदुपयोग कैसे करोगे

6.अपना पोर्टफोलियो तैयार कीजिए।

7. कला एकीकृत परियोजना

8. कक्षा में पढ़ाए गए सभी विषयों की पुनरावृत्ति।

MATHS

Chapters: **1.** Number Systems 2. Polynomials

Chapter 1: Number Systems

Concepts to Revise:

- Rational and irrational numbers Real number line representation
- Laws of exponents for real numbers Operations on real numbers

Practice Questions:

1. Classify the following numbers as rational or irrational:
   a) $\sqrt{2}$, b) 3/4, c) π, d) 0.121221222..., e) 2.25
2. Simplify:
   a) $(3\sqrt{2} + 2\sqrt{3})^2$ b) $(\sqrt{5} - \sqrt{3})(\sqrt{5} + \sqrt{3})$
3. Express 0.151515... as a rational number.
4. Represent $\sqrt{5}$ on the number line using the spiral method.

Activity:

- Make a poster showing classification of numbers: Natural, Whole, Integers, Rational, Irrational, Real.
- Include at least one example of each with a small number line illustration.

Chapter 2: Polynomials

Concepts to Revise:

- Types of polynomials (based on degree and terms)
- Coefficients, constants, and variables
- Addition, subtraction, multiplication of polynomials

Practice Questions:

1. Identify the degree, coefficient of x^2, and constant term in:
   a) $3x^2 + 5x - 7$ b) $4 - x^3 + x^2$
2. Add: $(2x^2 + 3x - 5)$ and $(x^2 - 2x + 4)$
3. Multiply: $(x + 2)(x - 3)$
4. Using Remainder Theorem, find the remainder when $p(x) = x^3 - 4x + 1$ is divided by $x - 1$.

Activity:

- Prepare a table/chart showing:
  - Monomial, Binomial, Trinomial .
  - One example of each with a small visual representation (if possible)

SOCIAL SCIENCE

1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)
2. Do Map practice of History and Geography.
3. Complete the check your progress in your notebook. (Page no. 9 Civics textbook)
4. Give some arguments in favour of democracy.
5. Write about any four non-farming activities of the village Palampur.
6. Write about the features of democracy.
7. What were the main causes of the French Revolution? Explain.
8. Write 20 important History dates. (Find out from your History textbook)
9. Prepare a project in a project file on the topic "Disaster Management". (15-20 A4 size papers)
10. Learn and revise all the completed chapters. (Economics, History and Civics)

SCIENCE

Q- MULTIPLE CHOICE QUESTIONS- (CHOOSE THE CORRECT OPTION)

1 Seema visited a Natural Gas Compressing Unit and found that the gas can be liquefied under specific conditions of temperature and pressure. While sharing her experience with friends she got confused. Help her to identify the correct set of conditions.

(a) Low temperature, low pressure (b) High temperature, low pressure
(c) Low temperature, high pressure (d) High temperature, high pressure

2 The property to flow is unique to fluids. Which one of the following statements is correct?

(a) Only gases behave like fluids. (b) Gases and solids behave like fluids.
(c) Gases and liquids behave like fluids. (d) Only liquids are fluids.

3 During summer, water kept in an earthen pot becomes cool because of the phenomenon of

(a) diffusion (b) transpiration (c) osmosis (d) evaporation.

4. A few substances are arranged in the increasing order of 'forces of attraction' between their particles. Which one of the following represents a correct arrangement?

(a) Water, air, wind (c) Oxygen, water, sugar (b) Air, sugar, oil (d) Salt, juice, air

5 On converting 25°C, 38°C and 66°C to Kelvin scale, the correct sequence of temperature will be

(a) 298 K, 311 K and 339 K (b) 298 K, 300 K and 338 K (c) 273 K, 278 K and 543 K (d) 298 K, 310 K and 338 K

ANSWER THE FOLLOWING QUESTIONS-

(1). Osmosis is a special kind of diffusion'. Comment.

(2) Water as ice has a cooling effect, whereas water as steam may cause severe burns. Explain these observations.

(3) You are provided with a mixture of naphthalene and ammonium chloride by your teacher. Suggest an activity to separate them with well labelled diagram. 2

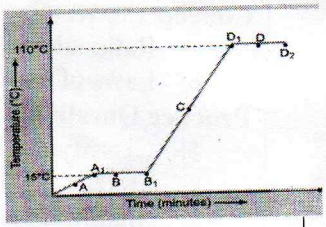
(4) Which gas is called dry ice? Why?

5. How does evaporation differ from boiling? (3 Points)

6. Adil parked his bicycle on a sunny day in a parking stand of his school campus. When the school got over Adil saw his burst cycle type. Thereafter he kept less air in his cycle types and did not inflate them fully.

(a) Why did the type burst

(b) Why is air compressibleThe temperature-time graph given alongside shows the heating curve for pure wax. From the graph answer the following:



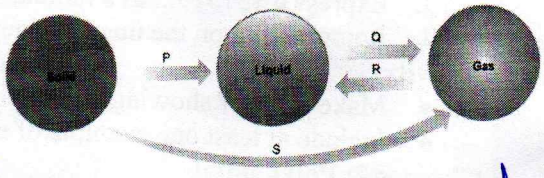
(a) What is the physical state of the substance at the points A, B, C and D?

(b) What is the melting point of the substance? 3

(c) What is its boiling point?

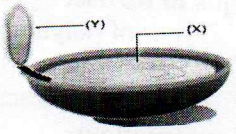
(d) Which portions of the graph indicates that change of state is taking place?

(e) Name the terms used for heat absorbed during change of states involved in above process.



Q7- (a) Name the changes in the terms of process P, Q, R and S?

Q8. The diagram below shows burning of an oil lamp.
Draw the arrangement of particles of position 'X' and 'Y' when the lamp is burning.



AI

1. Create a Project Cycle of Tea/Juice.
2. Write a program in Python to Add Two number.
3. Write about System Map and their Key features (P No.173-174 in AI book)
4. Write a program in Python to compare two number.
5. Write about SDG (Sustainable Development Goals) and write Total GOALS.