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

English

1. Write a short character sketch of the following :-
   a. Jacopo (b) Nicola
2. Find out two examples of the given figure of speech and write them with explanation.
   a. Simile (b) Metaphor (C) Personification
   (d) Alliteration (e) Refrain (f) imagery
3. Write down two Notices based on celebration. (Annual day, debate competition Or farewell party for Class 10).
4. Mention all the types of tenses with 5 examples each.
5. Solve at least 2-2 exercises based on tense, reported speech, subject-verb-concord.
6. Write the summary of the following proses & poems.
   (A) Two Gentlemen of Verona
   (B) Mrs. Packletide's Tiger
   (C) The frog and the Nightingale
   (D) Not Marble nor the Gilded monuments
7. Complete , revise and learn all the chapters which have been taught you so far.
8. You are Kushal/Kushali , class leader of class 10. The Projector in your classroom is malfunctioning. Report this to the principal in an email.
9. Write a factual description in about 100 words about your recent visit to a historical monument.
10. Write a factual description of a teacher in your school life who is an inspiration to you.
11. Keep reading one page (story, poem, English comic, newspaper etc.) aloud in English everyday.

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 विज्ञापन तैयार कीजिए-
i) जल ही जीवन है ii) मतदान हेतु युवाओं को जागरूक करने हेतु विज्ञापन

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

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

6.अपना पोर्टफोलियो तैयार कीजिए।

7. कला एकीकृत परियोजना

8. कक्षा में पढ़ाए गए सभी विषयों की पुनरावृत्ति।

MATHS

Chapters Covered: 1. Real Numbers 2. Polynomials

Chapter 1: Real Numbers

Concept Revision:

- Revise Fundamental Theorem of Arithmetic.

Practice Questions..

1. Find the LCM and HCF of 96 and 404 using prime factorization.
2. Prove that $\sqrt{3}$ is an irrational number.
3. Find the decimal expansion of:
   a) 13/125 b) 29/343
   Mention whether it is terminating or non-terminating.

Activity:

- Make a chart or presentation (on paper or digital) showing:
  - Classification of real numbers
  - Difference between rational and irrational numbers
  - A few examples of irrational proofs (like $\sqrt{2}$, $\sqrt{5}$)

Chapter 2: Polynomials

Concept Revision:

- Types of polynomials, degrees, zeros, and the relationship between zeros and coefficients.

Practice Questions:

1. Find the zero(s) of the polynomial:
   a) $p(x) = x^2 - 9$ b) $p(x) = x^2 + 5x + 6$
2. Verify the relationship between zeros and coefficients for:
   a) $x^2 - 7x + 10$ b) $2x^2 + 4x - 6$
3. Divide $2x^3 + 3x^2 - 2x + 5$ by $x - 1$ using long division.
4. Find a quadratic polynomial whose zeros are 4 and -3.

Activity:

- Create a visual aid showing:
  - The graph of a quadratic polynomial
  - Location of zeros on the x-axis
    (You can use graph paper)

SOCIAL SCIENCE

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

SCIENCE

1. Think about ideas related to RSBVP, INSPIRE MANAK, NCSC.
2. Solve very short answer , 2marks, 3 marks, 4marks and 5 marks from 5 CBSE sample papers.
3. Practice , draw and label all the diagrams of life process.
4. Learn valency table and atomic number table up to element 20.
5. Write all the reactions given in chapter 1 including activities, exercise and intext questions and in between thechapter.
6. Open virtual lab OLAB experiment and write the observations in copy.

AI

Exploring AI Concepts:
AI Model Types: Explain different approaches to AI model development, like rule-based systems.
AI Projects: Research and potentially develop a small AI-related project, such as a simple chat bot or a program that recognizes patterns.
Mind Mapping: Create a mind map to visualize different AI applications or challenges.

Python Program

Program 1: Calculate the area of a rectangle.
Program 2: Check if a number is even or odd.
Program 3: Calculate the average of three numbers.

7/5/2025