

Kendriya Vidyalaya Golden Rock (SR) Trichy-04

Summer Break Holiday Home-Work

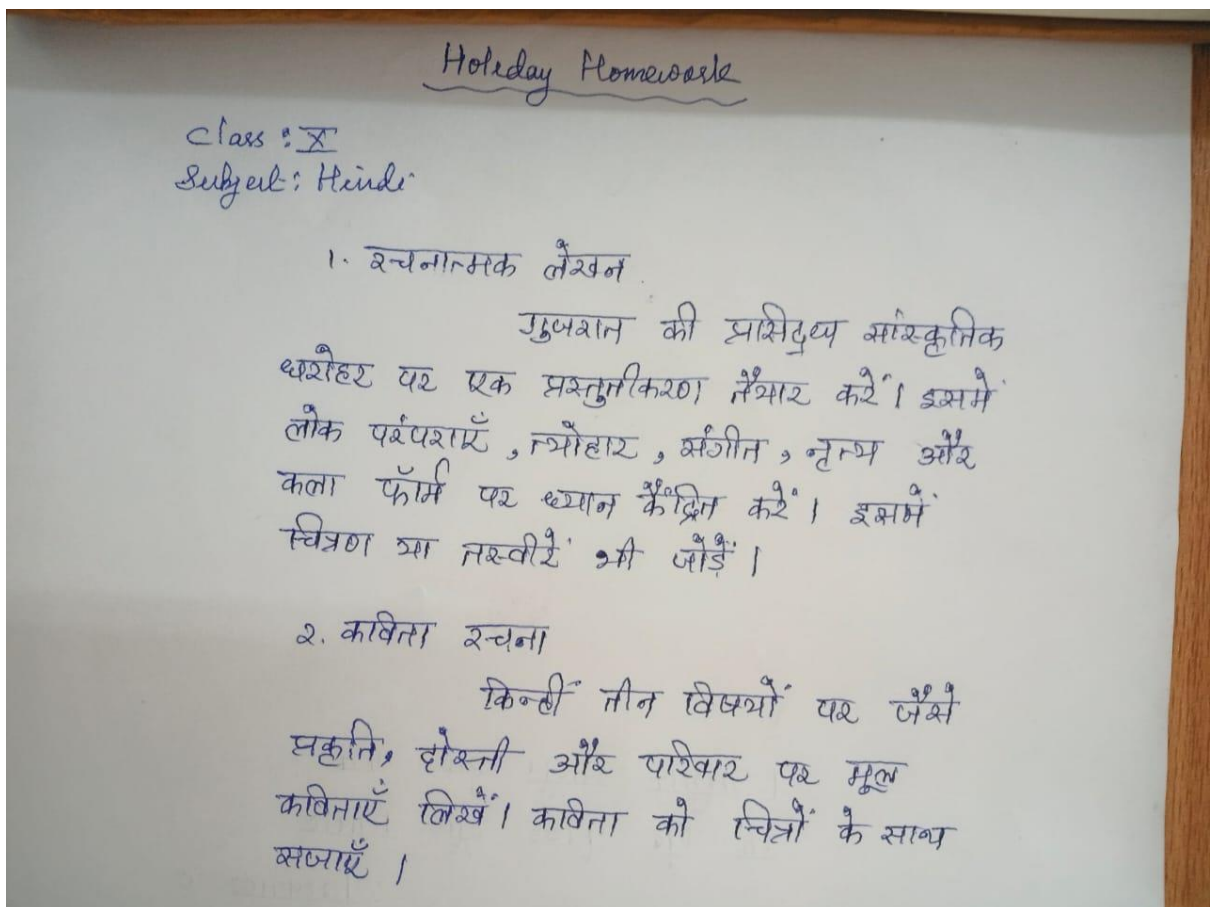
Session (2026-27)

Class X

SST

Subject Enrichment Activity:

1. Read all the chapters of History and Political Science book.
2. Compile the map locations and identification for all the chapters of History and Geography given in the syllabus by filing them in the map of India.



SCIENCE

1) Physics

i) Suppose you have three concave mirrors A, B and C of focal lengths 10 cm, 15 cm and 20 cm. For each concave mirror you perform the experiment of image formation for three values of object distance of 10 cm, 20 cm and 30 cm. Giving reason answer the following:

(A) For the three object distances, identify the mirror/mirrors which will form an image of magnification -1.

(B) Out of the three mirrors identify the mirror which would be preferred to be used for shaving purposes/makeup.

(C) For the mirror B draw a ray diagram for image formation for object distances 10 cm and 20 cm.

ii) Difference between Real and Imaginary Image.

iii) The radius of curvature of a convex mirror used as a rear view mirror in a moving car is 2.0m. A truck is coming from behind it at a distance of 3.5 meter, Calculate (a) position and (b) size of the image relative to the size of the truck. What will be the nature of the image?

(To be done in your Physics classwork notebook)

Chemistry

Case-Based Question

A) i) A shiny brown metal X is heated in air and forms a black coating Y. When hydrogen gas is passed over Y, the brown metal X is obtained again.

Answer the following:

- (1) Identify X and Y.
- (2) Write the chemical equation for the formation of Y.
- (3) Write the chemical equation when Y reacts with hydrogen.
- (4) In the second reaction, which substance is oxidized and which is reduced?

ii) Ravi noticed that the iron gate of his house had developed a reddish-brown flaky substance after the rainy season. His father explained that it was due to the reaction of iron with oxygen and moisture present in the air. Answer the following questions:

- (i) Name the process involved.
 - (ii) Write the chemical formula of rust.
 - (iii) Mention any two conditions necessary for rusting.
- B) What is rancidity? Mention any two ways to prevent it.

(To be done in your chemistry classwork notebook)

Biology

1) A. Define excretion. Draw the structure of Nephron. Explain the mechanism of urine formation in human beings.

B. What are artificial kidneys? How do they work?

(To be done in your Biology classwork notebook)

English

1. Write a formal letter (120–150 words) to the Principal requesting permission to conduct a “Cleanliness Drive” in your school campus.

2. Prepare a “Mind Map Poster” on any ONE topic:

A Letter to God

The Dust of Snow

Triumph of surgery

(Write in English cw note)

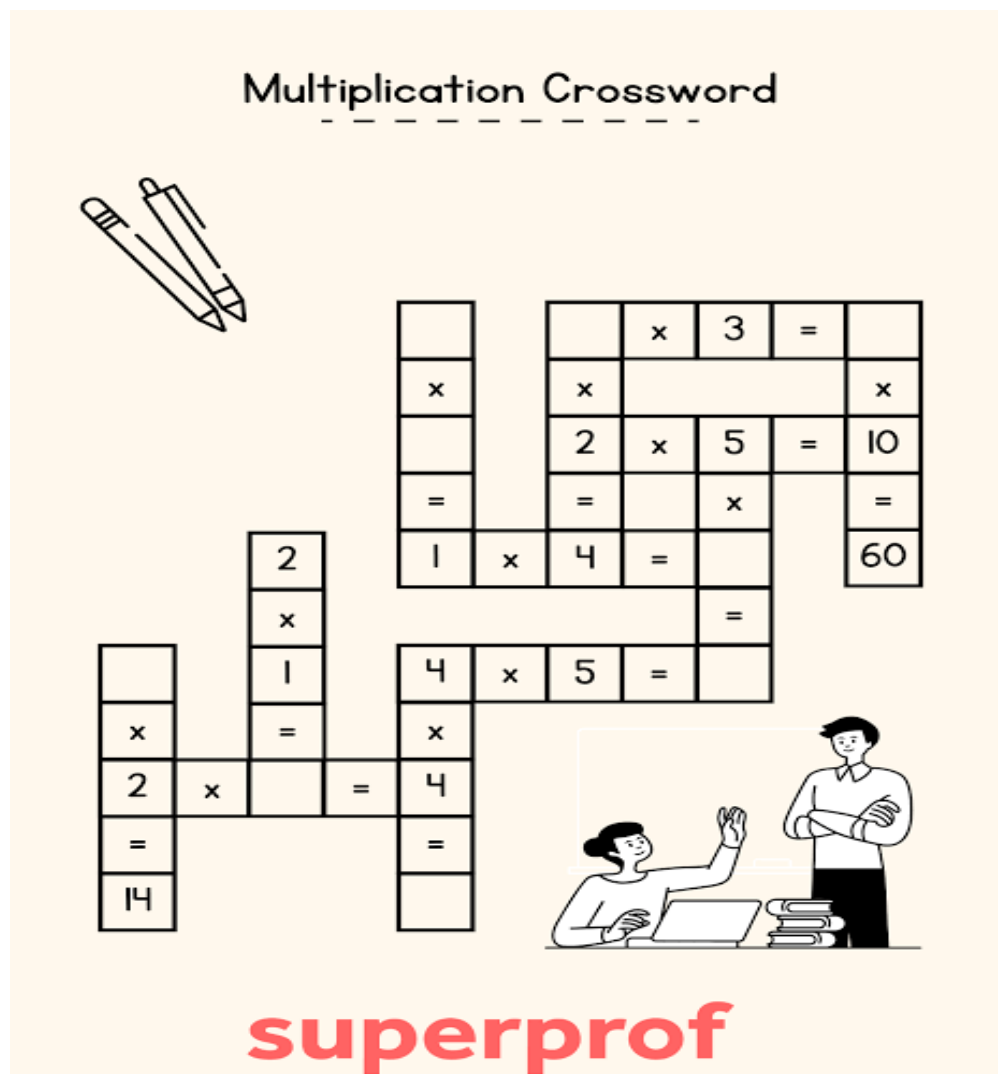
Math

Q1. A polynomial is given:

$$P(x) = x^2 - 5x + 6$$

Questions:

- A. Find the zeroes of the polynomial.
- B. Verify the relationship between zeroes and coefficients.
- C. Find the sum and product of zeroes.
- D. Form a quadratic polynomial with zeroes 2 and 3.



Q2.

SANSKRIT

ग्रीष्मकालीन अवकाश:



1. पाठ्यपुस्तकात् अव्यय पदानि चित्वा
तेषाम् अर्थः सह लिखत (पाठ्यपुस्तक से
अव्यय पदों को चुनकर अर्थ सहित लिखिए।)
2. मासदिनानां नामानि संस्कृतेन लिखत ।
(महीनो और दिनों के नाम संस्कृत में लिखिए।)