

## **Holiday homework 2024-2025**

**Class IX (A,B, C, D)**

**Subject -English**

- 1) Read any one of these books and give review .
  - i)The wings of fire (Dr.APJ Abdul Kalam)
  - ii)Untouchable(Mulk Raj Anand)
- 2) Interview your grandparents and write about their life experiences, struggles and achievements.
- 3) Read chapter" The Little Girl" condense the story into a shorter form focusing on the key points and theme.
- 4) Read page number 27 of "The Hindu Newspaper"and answer the questions.
- 5) Learn and use 10 to 15 new words in sentences or short paragraphs.

**Class IX (E & F)**

**Subject -English**

**(ALL HOMEWORK TO BE DONE IN GRAMMAR NOTEBOOK)**

- Q1. Write a story of your parents/grandparents childhood. It could have happy or sad emotion.
- Q2. Solve page number 27 of the newspaper in your Grammar Notebook?
- Q3. Read the Chapter "The Little Girl" and write its summary in 150 words.

**HINDI**

**कक्षा 9 E,F**

- 1)अपनी दिनचर्या को आधार मानकर प्रतिदिन की घटनाओं का उल्लेख करते हुए डायरी लिखो ।
- 2) मानसरोवर पुस्तक पढ़कर प्रेमचंद की किसी एक कहानी का सारांश अपने शब्दों में लिखो।
- 3) कबीर व रहीम के ऐसे दोहों को संकलित कीजिए जिसमें सद्गुणों व दुर्गुणों का उल्लेख हो।
- 4) समाचार पत्र पढ़ कर प्रतिदिन पांच शब्द इकट्ठा करो तथा उन शब्दों का अर्थ लिखकर वाक्य भी बनाओ ।

**कक्षा 9 A,B,C,D**

1. कक्षा—नवम्
2. परियोजना कार्य
3. कबीरदास के पाँच दोहे लिखकर अर्थ लिखो ।
4. एक प्रेरक प्रसंग लिखो ।
5. पाँच पहेलियों लिखकर उत्तर भी लिखो ।
6. कोई एक स्वरचित कविता लिखो ।
7. रामनवमी पर सचित्र अनुच्छेद लिखो ।
8. नोट— फाइल, 14 साइज पेपर कवर का रंग
9. Section A-लाल Section B-पीला Section C-नीला Section D-हरा

## Mathematics

Q.1 Find three rational numbers lying between  $\frac{3}{5}$  and  $\frac{7}{8}$ .

Q2. Is Zero a rational number? Justify.

Q3. Represent (i)  $\frac{8}{7}$  (ii)  $\frac{11}{5}$  (iii)  $\frac{-11}{7}$  (iv)  $\frac{5}{8}$  on number line.

Q4. Express each of the following decimals in the form of  $\frac{p}{q}$

where p, q are integers and  $q \neq 0$  (i)  $0.\overline{53}$  (ii)  $2.\overline{93}$  (iii)  $32.12\overline{35}$   
(iv)  $0.40\overline{7}$

Q5. Define an irrational number.

Q6. Represent  $\sqrt{8 \cdot 3}$  and  $\sqrt{x}$  on number line. Write the steps also.

Q7. Rationalize the denominator of the following

a)  $\frac{2\sqrt{3} - \sqrt{5}}{2\sqrt{2} + 3\sqrt{3}}$       b)  $\frac{4\sqrt{3} + 5\sqrt{2}}{\sqrt{48} + \sqrt{18}}$       c)  $\frac{3}{\sqrt{3} - \sqrt{2} + \sqrt{5}}$

Q8. Find rational numbers a and b such that (i)  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a + b\sqrt{3}$

(ii)  $\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} = a + b\sqrt{6}$

Q9. Prove that  $\frac{a^{-1}}{a^{-1} + b^{-1}} + \frac{a^{-1}}{a^{-1} - b^{-1}} = \frac{2b^2}{b^2 - a^2}$

Q10. The perimeter of an isosceles triangle is 56 cm and its base is  $\frac{3}{2}$  times each of the equal sides. Find the length of each side of the triangle, area of the triangle and the height of the triangle.

Q11. A field is in the shape of a trapezium whose parallel sides are 25 m and 10 m. The non-parallel sides are 14 m and 13 m. Find the area of the field.

Q.12 (a) Why is Heron's formula used? Write the formula also.

(b) What does S mean in Heron's formula?

(c) What is an Equilateral Triangle?

# SCIENCE

## Biology

Grow any indoor plant in a small pot write it's common name and scientific name in your notebook.

Observe its growth from day one of holiday.

Write down your observation weekly in your notebook.

Its compulsory to bring your plant in the school with you when the school reopens.

Find out the and Identify indigenous and foreign breeds of cows and buffaloes commonly found in the locality.

## Physics

- Derive the equations of motion.
- Give examples of different types of motion we come across in our daily life.
- Solve numerical problems based on distance, displacement, speed, average speed, velocity, average velocity, acceleration and equation of motion.

## Chemistry

1. What do you mean by latent heat? What are its different types? Explain.
2. On factors does rate of evaporation depend? Find out where rate of evaporation plays significant role in our daily life.
3. Write the name of elements, their symbol for the elements having atomic number from 01 to 30.
4. Try to memorize the reactivity series of metals by creating mnemonic.
5. Write and memorize the radical chart.
6. What are the different processes involved during inter conversion of states of matter. Define each of them.

## Social Science

1. Discuss the work of Nelson Mandela against apartheid system in South Africa.
2. Give comparative views on the Indian Constitution, American, African and British constitution, especially their features.
3. Portray the making of the Indian constitution with few important features.
4. Preamble of the Indian Constitution is the soul of the Indian Constitution. Discuss it.
5. Make a collage of the famous members of the Indian constituent assembly with short details.

Or

Write a journey of the Indian flag with the help of pictures.

## Computer

1. See the images given below and write few sentences about the scene in the pictures. Everyone has to interpret the scene in his/her own way depending on his/her imagination, past experiences, knowledge and interest. (100 words for each)



2. How do our beliefs, emotions and environment influence our communication perspective?