KENDRIYA VIDYALAYA JHAJHA

SUMMER VACATON HOLIDAY HOME WORK

CLASS :- IX

SUBJECT:-SOCIAL SCIENCE

1. MAP WORK :- India Size and location , Page No. :- 03 (Outline Map of India)(Latitudinal and Longitudinal expansion of India)

2. MAP WORK :- Physical Divisions of India (3 A4 Size Paper + 2 outline map of India)

3. Economics :- Chapter 1 & 2 , Solve Exercise Questions.

4. Geography :- Chapter 1 & 2 , Solve Exercise Questions.

5. Self Study

विषय – हिन्दी ,कक्षा – 9

निर्देश:-सभी विद्यार्थी यह कार्य ग्रीष्म कालीन अवकाश में करेंगे।

1.किसान के जीवन पर 100 शब्दोंमें एक अनुच्छेद लिखिए |

2 अपनेक्षेत्रमें होने वाली फसलों की जानकारी एकत्रित करके लिखिए |

3.अपनी किसी एक यात्रा का संक्षिप्त वर्णन लिखिए

4 कबीर दास जी के कौन से पद आपको अच्छे लगे हैं और

क्यों उनको लिखिए

5.किसी समाज सुधारक पर एक लेख लिखिए |

6.किसी एक स्वतंत्रता सेनानी का सचित्र वर्णन कीजिए |

7.अपने बड़े भाई की शादी में शामिल होने के लिए तीन दिन की छुट्टी हेतु प्राचार्य को एक पत्र लिखिए |

8.अपनी पाठय पुस्तक से उपसर्ग एवं प्रत्यय वाले 10–10 शब्द खोज कर लिखिए |

SUBJECT:-ENGLISH

CLASS IX

1. Write 10 word everyday from the textual book of English
2. Write the structure of tense on a chart paper

3. Write different poetic device on a chart paper any five.
4. Learn the question answer of English chapters

SUBJECT- SCIENCE

1. Read and write physical property of metals
2. Read and write five states of matter
3. Remember all separation technique with their principles and application
4. Remember Dalton's atomic theory (all six postulates)
5. Remember table 4.1 of chapter -4

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Class- IX Number System

(1) Find five rational numbers between $\frac{3}{5}$ and

(2) Find ten rational numbers between $-\frac{1}{9}$ and

(3) Insert six rational numbers between $\frac{1}{2}$ and $\frac{2}{5}$

(4) Express the following in the form of $\frac{p}{q}$, where $q \neq 0$ and p and q are integers -

(a) $0.\overline{437}$ (b) $18.\overline{48}$ (c) $0.25\overline{62}$

(d) $0.15\overline{32}$ (e) $2.26\overline{12}$

(5) Visualise 5.678 on the number line.

(6) Rationalise the denominator of the following

(i) $\frac{1}{\sqrt{6}-\sqrt{5}}$ (ii) $\frac{30}{5\sqrt{3}-3\sqrt{5}}$ (iii) $\frac{6-4\sqrt{2}}{6+4\sqrt{2}}$

(iv) $\frac{\sqrt{7}+\sqrt{2}}{9+2\sqrt{14}}$ (v) $\frac{2\sqrt{3}+5\sqrt{7}}{\sqrt{5}+\sqrt{6}}$

(7) If $x = 7-4\sqrt{3}$ then find the value of

(i) $\sqrt{x}+\frac{1}{\sqrt{x}}$ (ii) $\sqrt{x}-\frac{1}{\sqrt{x}}$

(iii) $x^2+\frac{1}{x^2}$

(8) Find the values of a and b in each of the following -

(a) $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a+b\sqrt{3}$ (b) $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a+b\sqrt{3}$

(c) $\frac{\sqrt{7}-1}{\sqrt{7}+1} - \frac{\sqrt{7}+1}{\sqrt{7}-1} = a+b\sqrt{7}$

Class - IX Mathematics

Polynomials Home-work.

1. Find $P(0)$, $P(1)$, $P(2)$ for the following polynomials ——

   (i) $p(x) = 4x^2 + x - 5$ (ii) $P(y) = 9y^3 + 2y^2 + y + 7$

2. Verify whether 2 and 0 are zeroes of the polynomial $P(x) = x^2 - 2x$.
3. Find the value of k if the division of $kx^3 + 9x^2 + 4x - 10$ by $x + 3$ leaves a remainder -22.
4. Find the remainder when $5x^3 - x^2 + 6x - 2$ is divided by $1 - 5x$.
5. Without division, prove that $2x^3 + 13x^2 + x - 70$ is divisible by $(x - 2)$.
7. Find the value of p for which the polynomial $2x^4 + 3x^3 + 2px^2 + 3x + 6$ is divisible by $(x + 2)$.
8. Find the values of a and b so that the polynomial $x^3 - ax^2 - 13x + b$ has $(x - 1)$ and $(x + 3)$ as factors.
9. Find the value of k if $(x - 3)$ is a factor of $k^2x^3 - kx^2 + 3kx - k$.
10. Exercise 2.5 of the text book.