ASHOKA PUBLIC SCHOOL SARANGARH (C.G.) SUMMER VACATION HOLIDAY HOMEWORK 2025-26

CLASS – IX

English

Objectives: Build vocabulary, grammar, and comprehension.

1. Reading Task:

- Read any one story from "Panchtantra" or "Akbar-Birbal".
- Write a short summary (100–150 words).
- Highlight 5 new words and write their meanings.

2. Grammar Basics:

- Revise Parts of Speech (Noun, Pronoun, Verb, Adjective, Adverb, Preposition, Conjunction, Interjection).
- Create a chart with examples.

3. Writing Task:

- Write a diary entry about your summer day (150 words).
- Topic: "A Day Without Gadgets"
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A Science (Integrated)

1. Physics:

- List 10 physical quantities with their SI units.
- Observe 3 types of motion at home (linear, circular, periodic) and write short notes.

2. Chemistry:

- Make a concept chart: "States of Matter" with definitions and examples.
- Observe and write about 2 changes at home: physical vs chemical (e.g., melting ice vs cooking egg).

3. Biology:

- Draw and label a plant cell and animal cell.
- Paste a leaf, label its parts, and write its functions.

Social Science

1. History:

• Create a timeline with 5 major historical events from ancient to modern India.

2. Geography:

- Draw a map of India and mark:
 - o **5 rivers**
 - o 5 mountain ranges
 - Neighboring countries

3. Civics:

- Write 5 rights and 5 duties of a citizen.
- Describe what makes a country democratic in 100 words.

4. Economics (Intro):

Write a short note on "What is economy?" with real-life examples.

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- Make a chart of input and output devices.
- Write 5 basic functions of a computer.
- Practice typing in MS Word (type your diary entry from English HW).

class - 1x th Holiday Homework polynomials 1. use suetable identifies to find the following . products $(2(-3) \times (2+5) (1) (7+3) (7-3)$ Evaluate the following product without 2. multiPlying - directly. 103×107 (D) 85×87 (1) 95×96 (11) 104×96 (14) 3 Express each of the following using . suitable identities $\frac{1}{1+4} - \frac{1}{2} + \frac{$ $(111) (3a - 7b - c)^{2} (1v) (2n - 7 + 2)^{2}$ Factorise, 4x2+9y2 + 162 + 12xy - 2442-16x2 222+42+822-252xy+45242-822 117 (11)Evaluate the following using suitable 5. <u>identities</u> (102)³ (111) (998)³ 99³ (102)³ (111) (998)³ (1)

-1 Tourser 6 Find the value of K. if X-1 is a factor of P(n) in each of the following $P(x) = Kx^2 - \sqrt{2x} + 1$ $\left(\right)$ $P(N) = KN^2 - 3N + 1$ $\frac{2}{P(N)} = \frac{2}{7} + \frac{1}{7} + \frac{1}{7} = \frac{2}{7}$ UL (11)9 $\frac{P(n)}{P(n)} = \frac{\pi^2 + \pi + k}{2}$ (1V)Faitorise, L 122-7271 (11) 62-752-6 (1) x3-2x1-x+2 (11)) 23-32-921-5 (11) n³ + 132² + 322 + 20 NFind the value of Polynomial 8. 52 - 422 +3 at ON=0 (D) N=-1 (D) N=2

(Plage 9. Nesity whether the following are zeroes of the polynomial. P(n) = 3n + 1, n = -1/2(12) $\frac{1}{100} - = \kappa \quad \cos(\frac{1}{10} \kappa) = (\kappa)^4 \quad (\omega)$ $P(n) = 2n + 1 \quad n = 2$ (1) $p(n) = 3n^2 + 1$ $n = -\frac{1}{\sqrt{2}}, \frac{2}{\sqrt{3}}$ (ν) FION the 2000 of the Polynomial in each 10. of the folloulings. P(n) = 921 2170 (l)P(N) = 2175 (ψ) P(n) = 3n - 2AW P(x) = Cx + d(iv) $P(\mathcal{H}) = \mathcal{H} - S$ R