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SUMMER HOLIDAY HOMEWORK 2026-27

CLASS- IX

ENGLISH – :

READING

Q.1 Read any two unseen passages and answer the questions in your English notebook. Also, frame two questions of your own for each passage.

WRITING

Q.2 Write a letter to the Editor of a local newspaper about any ONE issue:

- Increasing pollution in your area
- Poor condition of roads

(Word limit: 120–150 words)

Q.3 Write a paragraph on “My Summer Vacation” (100–120 words).

Q.4 Write a diary entry as the grandmother on the day she learned to read (100–120 words).

LITERATURE

Q.5 Describe the character of the grandmother highlighting her determination and courage.

Q.6 Explain the idea of “Unity in Diversity” with examples from the lesson -Bharat Our Land.

Q.7 Select one poem from your syllabus and highlight the presence of listed literary devices.

Explain the literary devices with suitable examples. Given below is a list of literary devices that you can look for in your poem.

* Simile • Metaphor • Alliteration • Repetition

GRAMMAR (TENSES)

Q. 8. Fill in the blanks with correct tense:

- She ___ (go) to school every day.
- They ___ (play) when it started raining.
- I ___ (finish) my homework already.
- We ___ (visit) Delhi next week.

9. Change the tense:

- She writes a letter. (Past)
- They completed the work. (Future)

10. Error Correction: (Rewrite the given sentences correctly)

- He go to school daily.
- I am knowing the answer.
- She did not wrote the letter.

HINDI :

प्र01 "दो बैलों की कथा" तथा क्या लिखूँ नामक पाठ के शब्दार्थ लिखे तथा याद करे।

प्र02 'पदुमलाल पुन्नलाल बरुशी का जीवन – परिचय लिखें।

प्र03 वर्णमाला का ज्ञान कराते हुए प्रत्येक व्यंजन का उच्चारण स्थान बताइए।

प्र04 सुभद्रा कुमारी चौहान द्वारा लिखित झाँसी की रानी कविता के आधार पर बताइए कि लक्ष्मीबाई के प्रिय खेल कौन – कौन से थे?

MATHS:

Q.1 Simplify : $\frac{2}{\sqrt{5}+\sqrt{3}} + \frac{1}{\sqrt{3}+\sqrt{2}} - \frac{3}{\sqrt{5}+\sqrt{2}}$

Q.2 If $x = 2 + \sqrt{3}$ then find

a. $x - \frac{1}{x}$ b. $x^2 + \frac{1}{x^2}$

Q.3 If $a = 1 - \sqrt{2}$, then find the value of $(a - \frac{1}{a})^3$

Q.4 Rationalise the denominator of the following :

a. $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ b. $\frac{16}{\sqrt{41}-5}$ c. $\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}-\sqrt{18}}$

Q.5 Simplify $\frac{1}{(625)^{-1/4}}$

Q.6 Evaluate:- $3.\overline{2} - 0\overline{16}$

Q.7 Express each of the following recurring decimals in to the rational number:-

a. $2.7\overline{39}$ b. $0.\overline{516}$ c. $1.\overline{12}$

Q.8 Write : a. A binomial of degree 50

b. A monomial of degree 10

c. A trinomial of degree 5

d. A constant Polynomial

Q.9 Find the coefficient of x^2 in the polynomial:

$$2x^3 - 3x^2 + 5x(1 - \frac{x}{2}) + 2x^2(x + 7) - 13$$

Q.10 Check whether 2 and 0 are zeroes of polynomial: $x^3 - 4x$.

S.St:

Q.1 Prepare a project file on:-

- Biosphere reserves:- Highlight vegetations and wildlife of each biosphere reserves of India.
- Wetlands (Ramsar sites of India)

Q.2 Prepare a project file on:-

- Vedic age (early vedic and later vedic)
- 16 Mahajanpadas of ancient period of India.

Q.3 Make a Poster on:-

- "Women Rights"
- "Human Rights commissions.

SCIENCE :

PHYSICS

MOTION

Define:

1. Distance
2. Displacement
3. Speed
4. Velocity
5. Acceleration
6. Differentiate between:
 - (a) Speed and velocity
 - (b) Distance and displacement

7. Solve the following:

A car travels 120 km in 3 hours. Find its speed.

A bicycle starts from rest and reaches 20 m/s in 5 s. Find acceleration.

8. Draw:

Distance-time graph

Velocity-time graph

9. Activity: Observe moving vehicles near your home and note their estimated speed.

10. Solve all questions of NCERT for chapter motion.

Force and Laws of Motion

1. State Newton's three laws of motion.
2. Explain inertia with daily life examples.
3. Define:
 - a. Momentum
 - b. Force
4. Numericals:

Find momentum of a 5 kg object moving at 4 m/s.

Calculate force when mass = 2 kg and acceleration = 3 m/s².

5. Write 5 examples of action-reaction force pairs.

CHEMISTRY

1. Classify the following into elements, compounds, and mixtures: Marble, Honey, Touch screen glass, Helium gas, Carbon dioxide, Tap water, Gold coin, Glucose.

2. Differentiate between a physical change and a chemical change based on: Composition of the substance. Reversibility with five example of each.

3. State the main differences between a compound and a mixture.

4. What is a saturated solution? How can you convert a saturated solution into an unsaturated one without adding more solvent?

5. Why is water considered a compound, whereas air is considered a mixture? Give two reasons.

6. A solution of acetone and water is given to you. Can you separate them using a simple distilling flask? Justify your answer based on their boiling points.

7. Explain why particles do not settle down in a colloidal solution, but they do settle down in a suspension.

8. What is the Tyndall effect? Name one condition required for a mixture to exhibit this effect.

9. The Three Mixtures Challenge: You are given three unlabeled beakers containing:

Beaker A: A solution of salt in water.

Beaker B: A mixture of milk in water.

Beaker C: A mixture of chalk powder in water.

Explain how you would differentiate between these three mixtures using the following parameters:

Particle size

Filterability

Stability (leaving them undisturbed for 10 minutes)

Behavior toward a beam of light

BIOLOGY

General Instructions:-

1. Use a beautiful decorated scrapbook or file (A4 size preferred).
2. Add colourful drawings, stickers, real leaves/photos, diagrams, and creative headings.
3. You may use Canva, hand drawings, or simple digital tools.
4. Click photos of your models and activities.
5. Focus on creativity + scientific accuracy.
6. Write in your own words and enjoy learning!

BIOLOGY – “Life Explorer’s Adventure Book”

Main Task: Create your own “My Life Science Discovery Book”

1. The Fundamental Unit of Life (Cell) – “Tiny City Inside Us”

Design a 3D model of a Plant Cell or Animal Cell using waste materials (clay, beads, buttons, cardboard, coloured paper, etc.). Take clear photos from different angles.

Make a comic strip showing the journey of a molecule entering the cell (diffusion, osmosis, etc.).

Draw a beautifully labelled diagram of both Plant & Animal cell and highlight 8 differences in a creative Venn diagram (like two cities comparing facilities).

Prepare flashcards for cell organelles with their functions and a fun nickname (e.g., Mitochondria – “Powerhouse”).

INFORMATION TECHNOLOGY:

1- Cyber Safety Poster: Make an

poster on "Staying Safe Online". On A4 size page (Cover passwords, phishing, cyberbullying, digital footprint. Add slogans + do's/don'ts.)

Paste this A4 page on computer notes notebook

2- IT in Daily Life: Write 200 words each on how IT is used in: Banking, Education, Healthcare, E-commerce. Also add related pictures (do in holiday homework notebook)

Note:- Summer holiday homework is available on school website:- www.santkarshnipublicschool.in and respective classes whatsapp groups.