CLASS – 9

SUMMER HOLIDAYS HOMEWORK

English

1. Take any five passages and read them carefully and solve the questions based on the Passage.
2. Book Review: Choose any two books and write the book review in 120-150 words in the given format.
    1. The Author 2. The Content 3. Theme 4. Your favourite character

3. Write the summary of the following lessons.
    1. The Lost Child
    2. The Road Not Taken
    3. The Fun They Had
    4. The Sound of Music
4. Prepare 15 MCQs from any 3 to 4 chapters in your notebook. (Not to be copied from Google)
5. Write a speech and record the video of the speech on the topic- Importance of Education.
6. Write any four notices for school library, CLA, Science Club and Eco Club.
7. Write a diary entry in100-120 words expressing your feelings of getting an award for 'The Best student in school'.
8. Prepare a questionnaire, and interview any three persons close to you. (100-120 words)

Hindi

कक्षा - नौवीं

- क्षितिज पाठ्यपुस्तक के काव्य खण्ड से कबीर की "साखियाँ एवं सबद" हिंदी भावार्थ लिखें व प्रश्नोत्तर याद करें ।
- क्षितिज पाठ्यपुस्तक के गद्य खण्ड से "दो बैलों की कथा" पाठ से 20 कठिन शब्द चुनकर उनका अर्थ लिखकर वाक्य में प्रयोग करें।
- कबीर दास का जीवन परिचय देते हुए उसका साहित्यिक परिचय सचित्र लिखें।(4 से 5 पेज का प्रोजेक्ट तैयार करें)
- उपसर्ग और प्रत्यय की परिभाषा लिखते हुए दोनों के 20- 20 उदाहरण लिखें।
- निम्नलिखित अनुच्छेद लिखिए-

<u>जीवन में खेलकूद का महत्व</u>-भूमिका , खेलों से लाभ, खेल विजयी बनाते हैं, खेलों से मनोरंजन।

<u>हमारे बुजुर्ग हमारी धरोहर</u>-बुजुर्गों का परिवार में महत्व, बुजुर्गों के दायित्व, बुजुर्गों की वर्तमान भयावह स्थिति, बुजुर्गों के प्रति सोच में बदलाव।

- अपने छोटे भाई को जो पढ़ाई के लिए घर से दूर रहता है उसे अपने स्वास्थ्य के बारे में सचेत करते हुए एक पत्र लिखिए ।
- विद्यालय के हिंदी पखवाड़ा कार्यक्रम पर अपने दोस्त के साथ एक संवाद लिखिए।
- एक प्रोजेक्ट फ़ाइल (पोर्टफोलियो) का निर्माण करें।

आप मोहन कुमार/मोहिनी हैं । आप प्लास्टिक की चीजों से हो रही हानि के बारे में किसी समाचार पत्र के संपादक को पत्र लिखकर अपने सुझाव दीजिए।

Sanskrit

1. द्वोपाठौ लेखनीयम स्मरणीयं च
2. व्याकरणस्य सर्वे बिंदव: लेखनीयम स्मरणीयं च |
3. 40 दिनानां प्रतिवेदनं लेखनीयम |
4. प्रतिदिनं समाचार पत्रम पठनीयम |
5. परियोजना कार्यं -पञ्च कथानां सग्रह करणीयम |
6. नूतन शिक्षा नीति विषये 10 बिंदव: लेखनीयम |
7. संस्कृत प्रतिज्ञा लेखनीयं स्मरणीयम् च |
8. संस्कृत प्रार्थना लेखनीयं स्मरणीयम् च |

Science

Activity-1

Take three 100 mL syringes and close their nozzles by rubber corks,

Remove the pistons from all the syringes.•

Leaving one syringe untouched, fill water in the second and pieces of chalk in the third

Insert the pistons back into the syringes.

You may apply some Vaseline• on the pistons before inserting them into the syringes for their smooth movement. Now, try to compress the content by pushing the piston in each syringe.•

What do you observe? In which case was the piston easily pushed in?

• observations?

Conclusion?

Activity-2 Take 5 mL of water in a test tube and keep it near a window or under a• fan.

Take 5 mL of water in an open china dish and keep it near a window or• under a fan.

Take 5 mL of water in an open china dish and keep it inside a cupboard• or on a shelf in your class. Record the room temperature.•

Record the time or days taken for the evaporation process in the above• cases.

Repeat the above three steps of activity on a rainy day and record your• observations.

What do you infer about the effect of temperature, surface area and wind• velocity (speed) on evaporation?

Observations:- Water kept in china dish near window evaporated in about ---------an hour.

While water kept in test tube took about ---------hour to get evaporated.•

Water kept in china dish took -------- hour to get evaporated.•

In rainy days, ----------time was taken to get water evaporated.•

Conclusion:-?•

Activity 4-Answer the following question:- 1. Convert the following temperature to Kelvin Scale (a) 100°C(b) -100 C

2. Convert the following temperature to the CELCIUS scale (a) 25K (b) 373K

3. Give the characteristics of the particles of matter. .

4. Explain why temperature remain constant during the change of state of any substance?

5. Define Sublimation with examples

. 6. Do we sweat more on a dry day or humid day ? Justify your reason.

7. Why do we see water droplets on the outer surface of a glass containing ice cold water?

8. List two properties that liquids have in common with solids.

9. List two properties that liquids have in common with gases.

10. What will happen to the melting point of ice if some common salt is added to it?

Justify your answer.

11.CCT BASED QUESTION

The molecules of a gas are free to move about in any direction because of large intermolecular spaces, the gases are easily compressible. The kinetic energy of the molecules of gases is maximum and they move about randomly at a high speed. The randomly moving high speed molecules hit against the sides of containing vessel. The pressure exerted by any gas is due to the force exerted by its molecules on the sides of containing vessel.

Q1. A gas fills all the space in a container in which it is kept because

The gases have large intermolecular spaces.

The molecules are not free to move.

The randomly moving molecules hit against the walls of container.

The molecules have large intermolecular forces of attraction

Q2. When pressure is applied on a gas, it is converted to a liquid due to

Increase in intermolecular forces of attraction between the particles.

Increase in intermolecular distance between the particles.

Decrease in intermolecular forces of attraction between the particles.

Increase in Kinetic energy of particles.

Q3. The State of matter which consists of super energetic particles in the form of ionized gases is called

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12. Do the numericals given in worksheet.

Mathematics

Theme - Algebra in Business

1. Math Project:

- **Objective**: To apply algebraic equations in profit and loss scenarios.
- **Task:** Create a hypothetical business. Calculate the cost of setting it up, predict monthly expenses and income, and use algebra to determine potential profit or loss after 6 months.
- **Report:** Provide equations and calculations used, along with graphs if possible.

2. Art Integration:

- **Objective:** To create a business logo and advertising flyer.
- **Task**:Design a logo and an advertising flyer for your hypothetical business using graphic design software or hand-drawn techniques.

Presentation: Explain how your designs represent your business and attract customers.

Worksheet

Chapters: Number System, Polynomials, Coordinate Geometry

Chapter 1: Number System

1.1 Fill in the blanks

a) Every rational number is a _____ number.

b) The decimal expansion of 7/8 is _____.

c) √2 is a/an _____ number.

1.2 True/False

a) The square root of 2 is a rational number.

b) Every irrational number can be expressed in the form of p/q.

1.3 Solve the following:

1) Classify the following numbers as rational or irrational:
   i) √49 ii) √3 iii) π iv) 22/7

2) Simplify and express in standard form:
   (3√2 + 2√3)(3√2 - 2√3)

3) Rationalize the denominator:
a) $1 / \sqrt{5}$ b) $5 / (2 + \sqrt{3})$

Chapter 2: Polynomials

2.1 Fill in the blanks:

a) Degree of the polynomial $3x^4 - 7x^2 + x - 5$ is _____.

b) A polynomial with one term is called a _____.

2.2 Very Short Answer:

1) Find the value of $p(2)$ if $p(x) = x^2 - 3x + 2$.

2) Is $x^3 + \sqrt{5}$ a polynomial in x?

2.3 Solve:

1) Factorize: $x^2 - 7x + 10$

2) Divide: $(x^3 + 3x^2 - x - 3) \div (x + 1)$

3) If $(x + 2)$ is a factor of $x^3 + 2x^2 - x - 2$, verify it using factor theorem.

Chapter 3: Coordinate Geometry

3.1 Fill in the blanks:

a) The point on the x-axis is of the form _____.

b) The coordinates of the origin are _____.

3.2 Very Short Answer:

1) Plot the points A(2, 3), B(-1, 4), C(-3, -2), D(4, -3) on a graph.

2) Identify the quadrant of the point (-5, 6).

Social Science

Project work: - Project on disaster management आपदा प्रबंधन पर परियोजना

1. What is a disaster? 1. आपदा क्या है?
2. Disaster management. 2. आपदा प्रबंधन
3. Types of disaster. 3. आपदा के प्रकार.

A.Natural disasters: - A. **प्राकृतिक आपदाएँ:-**

I. Earthquake भूकंप
II. Floods बाढ़
III. Drought सूखा
IV. Tsunami सुनामी
V. Disease outbreak रोग का प्रकोप
VI. Landslide भूस्खलन

B. Man-made disaster: - बी. मानव निर्मित आपदा:

i. Accident i दुर्घटना
ii. Terrorist attack ii आतंकी हमला
iii. War iii. युद्ध

You should choose one of the natural disasters and make your project on it. Keep the following points in mind while creating a project.

आपको प्राकृतिक आपदाओं में से किसी एक को चुनना चाहिए और उस पर अपना प्रोजेक्ट बनाना है प्रोजेक्ट बनाते समय निम्नलिखित बातों को ध्यान में रखें-

(i) Create a file for the project. (i) प्रोजेक्ट के लिए एक फ़ाइल बनाएं।
(ii) Do enter your name, class, roll number, subject, teacher's name, school name and logo. (ii) अपना नाम, कक्षा, रोल नंबर, विषय, शिक्षक का नाम, स्कूल का नाम और लोगो अवश्य दर्ज करें
(iii) **Write complete information about the disaster like -**
(A) What is disaster?
(B) The reason behind the disaster.
(C) Disaster damage.
(D) Relief work done by the government.
(E) What should the general public do for the government and the affected people in times of disaster?
(F) Write an example of one disaster.
(G) If you are made the nodal officer for disaster relief work in your

area then what steps will you take to deal with this disaster.

(H) Once a disaster is practiced, then we should take such steps so that the problem can be easily dealt with again.

(I) Any other suggestions that you would like to give to the government in times of disaster.

(J) If you have been affected by any disaster, write a description of it.

iii) आपदा के बारे में पूरी जानकारी लिखें जैसे -

(a) आपदा क्या है?

(b) आपदा के पीछे का कारण।

(c) आपदा क्षति।

(d) सरकार द्वारा किये गये राहत कार्य।

(e) आपदा के समय आम जनता को सरकार और प्रभावित लोगों के लिए क्या करना चाहिए?

(f) एक आपदा का उदाहरण लिखिए।

(g) यदि आपको अपने क्षेत्र में आपदा राहत कार्य के लिए नोडल अधिकारी बनाया जाता है तो आप इस आपदा से निपटने के लिए क्या कदम उठाएंगे।

(h) एक बार जब कोई आपदा आ जाए तो हमें ऐसे कदम उठाने चाहिए जिससे दोबारा आने वाली समस्या से आसानी से निपटा जा सके।

(I) कोई अन्य सुझाव जो आप आपदा के समय सरकार को देना चाहेंगे।

(j) यदि आप किसी आपदा से प्रभावित हुए हैं तो उसका विवरण लिखे

History-

Chapter 1. The French Revolution

1) Describe the circumstances leading to the outbreak of revolutionary protest in France.
2) Which groups of French society benefited from the revolution? Which groups were forced to relinquish power? Which sections of society would have been disappointed with the outcome of the revolution?
3) Describe the legacy of the French Revolution for the peoples of the world during the nineteenth and twentieth centuries.
4) How would you explain the rise of Napoleon?
5) What were Jacobian club? Who was their leader?
6) Evaluate the importance of following years in concern with the French revolution: 1774, 1791,1815,1789, 1804.
7) Which period in France history is known as the Reign of Terror? Give reasons.
8) Evaluate the condition of women in France before and after the revolution.
9) Explain any five features of the Constitution drafted in 1791.
10) How was slavery abolished in France?

1. फ्रांस में क्रांतिकारी विरोध के भड़कने की परिस्थितियों का वर्णन करें।

2. फ्रांसीसी समाज के किन समूहों को क्रांति से लाभ हुआ? किन समूहों को सत्ता छोड़ने के लिए मजबूर किया गया? क्रांति के परिणाम से समाज का कौन सा वर्ग निराश हुआ होगा?

3. उन्नीसवीं और बीसवीं शताब्दी के दौरान दुनिया के लोगों के लिए फ्रांसीसी क्रांति की विरासत का वर्णन करें।

4. आप नेपोलियन के उत्थान की व्याख्या कैसे करेंगे?

5. जैकोबियन क्लब क्या थे? उनका नेता कौन था?

6. फ्रांसीसी क्रांति से संबंधित निम्नलिखित वर्षों के महत्व का मूल्यांकन करें: 1774, 1791,1815,1789, 1804।

7. फ्रांस के इतिहास में किस काल को आतंक का शासनकाल कहा जाता है? कारण दे।

8. क्रांति से पहले और बाद में फ्रांस में महिलाओं की स्थिति का मूल्यांकन करें।

9. 1791 में तैयार किये गये संविधान की किन्हीं पाँच विशेषताओं की व्याख्या करें।

10. फ्रांस में दास प्रथा का अंत कैसे हुआ?

POLITICAL SCIENCE

Chapter 1.What is Democracy ? Why is Democracy?

1.Why do we prefer democracy better than any other form of the government?
2.Write some common features of the non-democratic countries?
3.Why Zimbabwe cannot be called a democratic ? Give reasons?
4.'Democracy improves the quality of decision -making.' Explain.
5.Distinguish between a democracy and a good democracy on three points.

1.हम किसी भी अन्य प्रकार की सरकार की तुलना में लोकतंत्र को बेहतर क्यों मानते हैं?

2. गैर-लोकतांत्रिक देशों की कुछ सामान्य विशेषताएँ लिखें?

3. ज़िम्बाब्वे को लोकतांत्रिक क्यों नहीं कहा जा सकता? कारण बताएँ?

4. 'लोकतंत्र निर्णय लेने की गुणवत्ता में सुधार करता है।' व्याख्या करें।

5. लोकतंत्र और अच्छे लोकतंत्र के बीच तीन बिंदुओं पर अंतर बताएँ

Artificial Intelligence

1. Communication Skills (Unit 1)

Activity-Based Tasks:

1. Prepare a **poster** on "Barriers to Effective Communication" and ways to overcome them.
2. Practice and prepare a 1-minute speech on any one topic:
    - My Dream Career
    - Importance of Good Communication

2. Self-Management Skills (Unit 2)

Written Tasks:

1. Write a paragraph on **"Why self-management is important for students?"**
2. Make a **daily routine chart** for your summer vacation showing:
    - Study time
    - Physical activity
    - Screen time
    - Hobby time
3. List 5 personal strengths and 3 areas for improvement in yourself.

3. ICT Skills (Unit 3)

Research & Practice:

1. List 10 basic computer components and write their uses.
2. Write steps to:

- Create a new folder
- Save a file
- Take a screenshot

4. Complete Notebook Work

- Revise all chapters from the AI curriculum **covered till now**.
- Complete all **class notes and questions** in your notebook.
- Highlight definitions, key points, and diagrams with color pens for better