GURUKUL INTERNATIONAL SCHOOL, Haldwani HOME WORK FOR SUMMER BREAK (2025-26)

Class- IX

ENGLISH

- 1 Prepare a 2 minute video on the topic.
 - "The impact of social media on teenagers"

Guidelines:

- Discuss the benefits and drawbacks of social media for teenagers
- Share personal experiences or observations
- Conclude with tips for using social media

2 Case study

Rohan's family recently shifted to a new city due to his father's job. Rohan had to leave his old school and friends behind. He felt sad and struggled to make new friends in the new school.

- a) How might Rohan's feelings change over time as he settles into his new school ?
- b) Is it more challenging to make friends in new school or to maintain friendship when moving away ?
- c) How can Rohan's parents and teachers support him during this transition ?
- d) In what ways can Rohan's experience of moving to a new city shape his perspective on life ?

Write a short speech on the topic

"The Power of Kindness "

Hints:

3

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- Start with a personal experience or story that illustrate kindness
- Discuss the impact of kindness on individuals and society
- Mention ways to practise kindness in daily life

4 **Poster designing topic**

Topic: Healthy habits for a happy life

- Design a poster highlighting the importance of healthy habits such as regular exercise, balanced diet etc
- Use eye-catching visuals, simple language
- Include a motivational slogan or quote

AIL

Illustrating a poem

- Choose a poem from your English textbook
- Create a visual representation of the form using any art form example drawing, painting, digital art
- 6 Suppose you have been appointed as a principal of your school. What initiatives and changes would you introduce to enhance the academic, extracurricular and overall development of school ? Write in detail outlining your plans and vision for the school.
- 7 Write a reflective essay based on your learning experience of class 8. It should include (Academic achievements, challenges, favourite subject, extracurricular activities, skills and values you developed, what you are looking forward to in future classes)
- 8 Imagine stepping into a classroom where technology adapts to your learning style, helping you grasp concepts faster and more effectively. Discuss how artificial intelligence (AI) is transforming school life highlighting its benefits and potential to make education more engaging.

9 **Do as directed**

a) **Identify the tense.**

She will have finished her homework by tomorrow.

b) Change the sentence to present continuous.

- They play football every Sunday.
- c) Choose the correct modal.
 - You wear a helmet while riding a bike.

d) Correct the sentences.

- i) Each of the students have their own laptop.
- ii) The teacher give us a lot of homework.

MATHEMATICS

1 If $4^{2x} = \frac{1}{8}$, then the value of x is

a)
$$\frac{3}{4}$$
 b) $\frac{-3}{4}$ c) $\frac{-4}{3}$ d) $\frac{4}{3}$

2 Factorisation of $x^2 + 3\sqrt{2x} + 4$ is

a)
$$(x+2\sqrt{2})(x+\sqrt{2})$$
 b) $(x+2\sqrt{2})(x-\sqrt{2})$ c) $(x-2\sqrt{2})(x+\sqrt{2})$ d) $(x-2\sqrt{2})(x-\sqrt{2})$

Find the value of $f(x) = 2x^2 + 7x + 3$ at x = -23

4 If
$$x = \frac{-1}{2}$$
 is a zero of the polynomial $p(x) = 8x^3 - ax^2 - x + 2$. Find the value of a.

Find the value of $\left(\frac{1}{125}\right)^{-2/3} \div \left(\frac{1}{216}\right)^{-4/3}$ 5

6 **Case Study**

A reputed school of Meerut decided to conduct different types of tours for the students to educate them. So in class X $1\frac{1}{6}$ th times the square of the total number of students planned to visit historical monuments. $\frac{5}{6}$ th times the total number of students planned to visit old age homes while 10 students decided to teach poor children.

On the basis of the above information solve the following questions.

Using above information, express the total number of students as a polynomial in terms of x. i)

	a) $\frac{x^2}{6} + \frac{5}{6}x + 10$	b) $\frac{x^2}{4} + \frac{7}{4}x + 10$	c) $\frac{7x^2}{12} + \frac{1}{12} + 10$	d) $\frac{x^2}{4} + \frac{7}{4} + 15$		
ii)	Write the coefficien					
	a) $\frac{9}{13}$	b) $\frac{5}{6}$	c) $\frac{11}{12}$	d) $\frac{13}{12}$		
iii)) Write the coefficient of x^2 in polynomial.					
	a) $\frac{1}{13}$	b) $\frac{1}{10}$	c) $\frac{1}{6}$	d) 15		
iv)	Value of $p(x)$ at $x =$	2 is				

a)
$$\frac{37}{3}$$
 b) $\frac{11}{2}$ c) $\frac{22}{3}$ d) $\frac{14}{3}$

7 HOTS

 $(x+y+z)^{2} + (x+\frac{y}{2}+\frac{z}{3})^{2} - (\frac{x}{2}+\frac{y}{3}+\frac{z}{4})^{2}$ Simplify-

8 Activity

Represent $\sqrt{10.50}$ in real number line.

9 Design a park with a quadrilateral shaped pond. Calculate the area and perimeter.

SCIENCE

2

7

- Activity From chapter 1st (Matter in our surrounding) 1
 - Prepare a model to demonstrate movement of particles in solid liquid & gases.

Material Required-

- a) A transparent jar
- b) A big rubber balloon or piece of stretchable rubber sheet.
- c) A string
- d) Few chicken peas or black gram or dry green peas.

Method

- a) Put the seed in the jar.
- b) Sew the string to the center of the rubber sheet& put some tape to keep it tied securely.
- c) Stretch model is ready. Now run your fingers up and down, the string by first tugging at it slowly & then rapidly Write down yours observations with respect to solid, liquid & gas particles.
- a) Assertion (A): Gases can be liquefied by applying pressure & lowering temperature.
 - **Reason** (**R**) : On increasing pressure & decreasing temperature the kinetic energy of gas particles increases.
 - b) Assertion (A): The temperature of a substance remains constant during a change of state. **Reason (R)** : The heat energy supplied is used to overcome the force of attraction between the particles.
 - c) Assertion (A): An object having varying speed may have varying velocity.
 - **Reason** (**R**) : If velocity of a particle is zero at any instant its acceleration is necessary zero at that constant. Can a body said to be at rest as well as in motion at the same time. Explain.
- 3 4 State the condition when the magnitude of velocity and the speed of an object are equal.
- 5 Why does a person sitting in one train think that the other train is at rest, when both the trains are moving on parallel tracks with same speed & same directions?
- 6 MCO: -
 - What does the speedometer of a vehicle measure?
 - i) Average speed ii) Average velocity iii) Instantaneous speed Activity

Define

i) volume ii) Inter molecular force

What state is plasma? Give reason.

Mention three state of matter on the basis of property.

iv) Instantaneous velocity

8 Choose one of the following scientists and his contribution to biology.

- a) Charles Darwin b) Robert Hook c) Antonie von Leewnhock d) Gregor Mendel
- a) Provide a brief biography of your choosen scientist.
- b) Summarize his key scientific discovery in biology.
- c) Explain how his work or discovery changed our understanding in biology.
- 9 Take a walk in a local park, garden or natural area, observe plants, animals, insects .Write yours finding in the format given blow.

Location	Data of	Weather	Types of	Plants / Animals	Human impact
	observation	conditions	habitat	species found	

- 10 Leaves appear green in presence of sunlight, what may happen to them in absouce of sunlight. Give three reason.
 - If cell production is stopped in our body. What repercussion body would reveal with passage of time ?
 - Differentiate between Prokaryotic and eukaryotic animal/organism. Which organism is both eukaryotic ?

SOCIAL SCIENCE

1 Make a project in about four pages on

- a) disaster management
- b) Phases of disaster management
- c) mitigation
- 2 Create/ make a physical model of India's landform using waste material.
- 3 India shares its land boundaries with Pakistan and Afghanistan in the Northwest. China, Nepal and Bhutan in the north and Myanmar and Bangladesh in the East. Our Southern neighbours across the sea consists of the two island countries.
 - a) Which Island countries are our Southern neighbours ?
 - b) How many states and union territories are there in India?

4 **Define the following-**

a) Feudal System b) IST c) Referendum d) Green Revolution e) Subsistence Crisis

5 Case study -

Read the source given below and answer the questions that follow.

The period from 1793 to 1794 is referred to as the Reign of Terror. Robespierre followed a policy of severe control and punishment. All those whom he saw as being 'enemies' of the republic-ex-nobles and cleargy, members of other political parties, even members of his own party who did not agree with his methods-were arrested, imprisoned and then tried by a revolutionary tribunal. If the court found them 'guilty' they were guillioned. The guillotine is a device consisting of two poles and a blade with which a person is beheaded. It was named after Dr Guillotin who invented it.

Robespierre's government issued laws placing a maximum ceiling on wages and prices. Meat and bread were rationed. Peasants were forced to transport their grain to the cities and sell it at prices fixed by the government.

The use of more expensive white flour was forbidden; all citizens were required to eat the pain degalite (equality bread), a loaf made of wholewheat. Equality was also sought to be practised through forms of speech and address. Instead of the traditional Monsieur (Sir) and Madame (Madam) all French men and women were hence forth Citoyen and Citoyenne (Citizen). Churches were shut down and their buildings converted into barracks or offices.

Robespierre pursued his policies so relentlessly that even his supporters began to demand moderation. Finally, he was convicted by a court in July 1794, arrested and on the next day sent to the guillotine.

- a) Enemies of the French Republic was tried by a revolutionary tribunal. Justify.
- b) Laws of Robespierre's government were very repressive. Explain it by giving an example.
- c) The ideas of equality was applied in French society. Justify the claim by giving an example.

Make a project and discuss the most likely impact if India operated without Forest Act. Build your project around these points.

- a) Indian Forest Service
- b) Sustainable management
- c) Three categories of forest

7 **Differentiate between**

6

- a) Traditional and modern farming methods
- b) Land and capital
- c) Landless labourers and farmers with land

8 Assertion and Reason.

- i) Assertion(A) : Finally 1946 the women in France won the right to vote.
 - **Reason(R)** : Women struggle for equal political rights continued for more than 200 years after the French Revolution.
- ii) Assertion (A): India is divided into two equal halves.
 - **Reason**(**R**) : The Tropic of Cancer passes almost through the centre of the mainland of India.

Codes

- a) both Aand R are true and R is the correct explanation of A
- b) both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false
- d) A is false but R is true.
- 9 Prepare a chart and display in your class.
 - a) modern and traditional tools of farming.
 - b) examples of democratic and non democratic countries of the world.
- 10 Explain the terms flora and fauna. Paste the pictures of types of vegetation and write briefly about each of them.

HINDI

पाठ्य पस्तक स्पर्श पर आधारित

- शोक करने गम मनाने के लिए भी सहलियत चाहिए और दुखी होने का भी एक अधिकार होता है। 'दुख का अधिकार' पाठ के आधार 1 पर निम्नलिखित पंक्तियों का भाव स्पष्ट करें।
 - क) 'लेखक कहता है यदि मनुष्य दुख मनाता है तो उसका प्रदर्शन कैसे करें।'
 - ख) लेखक के अनुसार दुख व्यक्त करने के लिए अधिकार चाहिए। यह कैसा अधिकार है ? स्पष्ट कीजिए।

व्यांकरण पर आधारित

- उपसर्ग और प्रत्यय की परिभाषा उदाहरण सहित स्पष्ट कीजिए। 2
- अनुस्वार और अनुनासिक में अंतर स्पष्ट करें। 3

रिसर्च पर आधारित प्रश्न

- मुंशी प्रेमचंद की कहानियों को पढकर उनका सारांश 8 से 10 पंक्तियों में लिखिए। 4
 - क) नमक का दरोगा
 - ख) ईदगाह
 - ग) बढी काकी

निबंध लेखन

बढती जनसंख्या के कारण पेयजल की समस्या दिन पर दिन बढती जा रही है। जल संरक्षण के लिए वे कौन से कदम आप उठाएंगे। 5 जिससे आने वाले समय में इस समस्या का सामना न करना पडे। अपने विचार 50 से 60 शब्दों में लिखिए।

परियोजना (Project) पर आधारित

- उत्तराखंड में पर्वतीय संस्कृति की मनमोहक झलक दिखाई देती है। जो प्राचीन व हमारी विरासत को उजागर करती है। इस प्रकार 6 उत्तराखंड की संस्कृति का अध्ययन निम्नलिखित बिंदओं के आधार पर कीजिए।
 - 3 त्योहार 4 जीवन शैली 5 बोलचाल १ नृत्य 2 खान पान

कला एकीकृत परियोजना (AIL)

- एक शिक्षित नागरिक होने की नाते हमारा कर्तव्य है कि हम अपने चारों खुशियां फैलाएं। इस संदेश को चित्र के माध्यम से दर्शाइए। 7 8
- स्रोत पर आधारित (Cast study based)

मेरे अतिथि मैं जानता हूँ कि अतिथि देवता होता है पर आखिर में भी मनुष्य हूँ। मैं कोई तुम्हारी तरह देवता नहीं। एक देवता और एक मनुष्य अधिक देर साथ नहीं रहते। देवता दर्शन देकर लौट जाता है तुम लौट जाओ। अतिथि! इसी में तुम्हारा देवत्व सुरक्षित रहेगा। यदे मनुष्य अपने पर उतरे, उसके पूर्व तुम लौट जाओ ! उफ, तुम कब जाओगे, अतिथि ?

- क) अतिथि सदैव देवता नहीं होता. वह मानव और थोडे अंश में राक्षस भी हो सकता है। पंक्ति का भाव स्पष्ट करें।
- ख) एक देवता और एक मनुष्य अधिक देर साथ नहीं रह सकते। क्यों ?

INFORMATION TECHNOLOGY

- 1 Rohan has a lot of homework to complete but he also wants to watch his favourite show. What should he do to manage this time effectively ? Suggest two action he can take.
- 2 At time the youth get confused in choosing careers option. What factors do you think or may not taken in an account for choosing right options can IT help them in deciding career options if yes cite some examples.
- 3 Discuss how self acceptances and thinking positively help and building our self confidence.
- 4 How does stress and tiredness affect communication?

5 Case study-

Riva is a student of class 9th and recently joined the new school. On her first day she noticed that some students were struggling to understand the instructions given by the teacher. During the group activity. Riva tried to explain the task to her teamates clarity. She maintain eye contact, use polite words and encouraged everyone to share their opinion. By the end of the activity the group performed well and and the Teachers appreciated Riya for her communication skills.

- Why is maintaining eye contact considered an important part of communication ? a)
- How did Riya encourage teamwork through her communication skills ? b)
- Mention any two characteristic of effective communication that Riva used. c)
- Imagine you are a Riya's classmate. Suggest one way could improve your own communication skills after d) observing her.