

**Alpine International School**

**Jalalabad, Distt. Shamli,  
Uttar Pradesh**

**holidays  
homework**



**2024**

**2025**

**Class IX to XII**

## Dear Students

Summer Vacation is the best time of the year for you all; it is time for loads of fun.

“Learning at school has provided students with a plethora of activities to help the modern -day learners come at pace with the challenges. Gone are the days when the process of learning and imparting lessons was a conventional process compressed into rigorous models. To make learning a fun and 360-degree experience for the students, we have laid down the importance of holiday homework in making learning an enriching experience.

A gradual progress towards achieving your goals always helps reach your destination. Board examination is not the ultimate goal in life but INDEED MOST SIGNIFICANT TURN. Keep preparing regularly and to help you in it; your teachers have provided you with selected questions from all topics taught in the month of April and May.

**“You are instructed to solve them in your fair notebooks.”**

Some tips to make this holiday special:

- **Close your laptop and turn off your phone.**

Switch off all devices and forget about social networks. Some things will prove difficult to ignore but in order to make the most of our vacation it is indispensable to limit the time we allot to be “online”.

- Play board games with your parents and siblings and show them who is the smartest.
- Spend some quality time with your grandparents.

**Some do’s during summer vacation:**

- Take nutritious/ healthy diet with plenty of water and include seasonal fruits in your diet as much as possible. Avoid suppliments from market. Don’t join GYMS, do light exercises at home or play early morning in the ground or fields.

Wear light cotton clothes.

- Be a leader in keeping yourself, your school, family, and community healthy.
- Birds need you this summer. Summer is at its peak. Make a small bird feeder and place bird
- Baths for thirsty birds in terraces, compound walls and balconies. Do your bit to save them. Spread this message!!

Ms. NIRMALA MALIK

PRINCIPAL

**Note- School reopens on 1<sup>ST</sup> July 2024**

## Instructions for Holiday Homework

- Read every day for at least 30 minutes, choosing books or articles you like.
- Practice math problems to keep your skills sharp.
- Write essays or articles on topics you find interesting to improve your writing.
- Research specific topics and present your findings.
- Review your notes from last semester to stay on top of your subjects.
- Get creative with projects like making posters or designing models.
- Practice language skills through exercises like vocabulary building and grammar drills.
- Take online courses related to your subjects at your own pace.
- Stay active with sports or outdoor activities for a healthy balance.
- Set clear deadlines to manage your time effectively.

### Evaluation Criteria:

- Creativity and originality.
- Clarity of expression.
- Adherence to word limits.
- Presentation and neatness.
- Overall effort and engagement with the tasks.

## ALPINE INTERNATIONAL SCHOOL

### CERTIFICATE

This is to certify that the Project /Practical file / Report titled- \_\_\_\_\_ is submitted by \_\_\_\_\_ of class \_\_\_\_\_ to \_\_\_\_\_

This project is considered a part of practical exam of AISSCE 2024-25  
Subject \_\_\_\_\_ conducted by Central Board of Secondary Education , a bonafide record of project work carried out under our guidance and supervision at Alpine International School, Jalalabad, Shamli.

**INTERNAL**

**EXTERNAL**

**VICE PRINCIPAL**

**PRINCIPAL**

## ACKNOWLEDGEMENT

I express my gratitude towards my guide Ms./Mr. \_\_\_\_\_ for her extended guidance and support in completion of this Project Report. I would like to thank Madam Principal, Madam Vice Principal and Academic Coordinator for their great support and encouragement. Last but not the least I thank my parents and God Almighty for their support and blessings.

Student's Name : \_\_\_\_\_  
Class and Section : \_\_\_\_\_  
CBSE Roll Number : \_\_\_\_\_

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S.NO	PARTICULARS	PAGE NO.	TEACHER'S SIGN

## CLASS IX : 2024-25

### English

1. Write a short story (500-600 words) based on one of the following prompts:

"A journey to a mysterious island..."

"The day I discovered a hidden talent..."

"A day in the life of a superhero..."

2. Prepare a speech (2-3 minutes) on one of the following topics:

"The importance of reading books."

"The role of technology in modern education."

"How to overcome challenges in life."

Practice delivering the speech in front of a mirror or record a video of your speech.

3. During your break, write a diary entry every day with at least 100 words. Describe what you did, felt, and thought. Use good grammar. Then, pick your best day and write a 400-word essay about it, using your diary for details.

4. Choose a poem from a renowned poet and analyze its themes, imagery, and poetic devices. Write a critical analysis discussing the poem's meaning and significance.

5. During the summer vacation, students are encouraged to read an English newspaper daily and write down two new vocabulary words along with examples in their notebooks dating each entry.

### Hindi :

1-चित्रकारियों के माध्यम से निम्नलिखित बिन्दुओं को ध्यान में रखते हुए किसी एक विषय पर परियोजना पुस्तिका (फाइन) तैयार कीजिए।

विषय-कवि प्रेमचंद अथवा कवयित्री मृदुला गर्ग संकेत बिन्दु-प्रस्तावना

जन्मस्थान व माता-पिता

बचपन व शिक्षा

विवाह

रचनाएं

मृत्यु

रचनाओं का संक्षिप्त परिचय

धन्यवाद

2-निम्नलिखित पाठों के आधार पर स्वयं दस-दस बहुविकल्पीय प्रश्नों का निर्माण कीजिए।

1-वाख

2-दो बैलों की कथा

3-मेरे संग की औरतें

## Mathematics :

### DO THE FOLLOWING ACTIVITY IN THE MATHS LAB MANUAL;

- 1- To obtain a square root spiral of natural numbers using graduated strips.
- 2- To verify the following algebraic identities;  
i)  $(a + b)^3 = a^3 + b^3 + 3a^2b + 3ab^2$   
ii)  $a^3 + b^3 = (a+b) ( a^2 + b^2 -ab)$   
iii)  $a^3 - b^3 = (a-b) ( a^2 + b^2 +ab)$
- 3- To obtain a mirror image of a figure with respect to a given line on a graph paper.

### SHORT ANSWER TYPE QUESTIONS

- Q1. Find out and write history of Pie ( $\pi$ ).
- Q2. Find out and write about any Indian Mathematician.
- Q3. Make and Solve any ten Mathematical Puzzle from any Newspaper, Magazine.
- Q6. Find one rational and one irrational number between 1.501 and 1.502.
- Q7. Find two irrational numbers between 0.2301 and 0.2424....
- Q8. Rationalize the denominator  $16 / (\sqrt{41}-5)$
- Q9. Represent  $\sqrt{5.5}$  on the real line.
- Q10. If  $x = 3 + \sqrt{8}$ , show that  $(x^2 + 1) / x^2 = 34$ .
- Q11. Find the value of a and b if  $(3 + \sqrt{7}) / (3 - \sqrt{7}) = a + b\sqrt{7}$
- Q12. Simplify: (i)  $6\frac{2}{3} \times 6\frac{3}{4}$  (ii)  $3\sqrt{4} \times 3\sqrt{16}$  (iii)  $8\frac{13}{4}$

### LONG ANSWER TYPE QUESTIONS

- Q1. Solve the following and find 3 rational between I)  $1/3$  &  $1/2$  II)  $-2$  &  $0$
- Q.02- Write 2 rational numbers between  $2/3$  &  $5/6$
- Q.03- Which of the following decimal have terminating I)  $7/20$  II)  $2/13$  III)  $23/7$  IV)  $133/125$
- Q.04- Express these in the form of p/q  
I)  $0.\overline{6}$  (Bar 6)                      II)  $0.\overline{27}$  (Bar 27)                      III)  $3.\overline{7}$  (Bar 7)
- Q.05- Identify that following are rational or irrational  
I)  $\sqrt{121}$  (Root 121)                      II)  $(3+\sqrt{5})-\sqrt{5}$                       III)  $2\sqrt{27} / \sqrt{3}$  (Root 27 & root 3)  
IV)  $\sqrt{135}$  (Root 135)                      V)  $1.\overline{21}$  (Bar 21)  
VI)  $1.101001000\dots\dots$
- Q.06- Rationalize  
I)  $\sqrt{5} / \sqrt{3}+\sqrt{2}$                       II)  $2+\sqrt{3} / \sqrt{7}-\sqrt{2}$                       III)  $4 / \sqrt{7}+\sqrt{3}$
- Q.07- Find the value of a & b, if  
I)  $\sqrt{3}-1 / \sqrt{3}+1 = a+b\sqrt{3}$                       II)  $\sqrt{3}+2 / \sqrt{3}-2 = a+b\sqrt{2}$                       III)  $\sqrt{7}-1 / \sqrt{7}+1 - \sqrt{7}+1 / \sqrt{7}-1 = a+b\sqrt{7}$
- Q.08- Simplify the following  
I)  $(\sqrt{2}+2)^2$                       II)  $(2-\sqrt{2})(2+\sqrt{2})$                       III)  $(\sqrt{2}+\sqrt{3})^2$

### ART INTEGRATED PROJECT –

The Andaman and Nicobar Islands are home to about a dozen of endangered languages. The majority of the population speaks immigrant languages. Demonstrate different languages spoken in Andaman and Nicobar through a Pie Chart. The most common spoken language in Lakshadweep is Malayalam. Search for others language spoken here and exhibit it by a Pie chart.

### FUN 'N' LEARN ACTIVITY-

Our window to avoid climate catastrophe is closing rapidly. Write down the average temperature in Delhi for the month of June for past 5 years. Mention the reason behind this change of climate and also give some suggestions. How can you help to bring a little impact on this climate change?

### (Physics)

#### VALUE BASED ASSIGNMENT

Research on the life history and contribution of two Indian scientists in the development of science in India and make a report or write an article about the same and also mention the values you learn from their life and would like to incorporate in your personality.

#### DO THE FOLLOWING ACTIVITY IN THE SCIENCE LAB MANUAL;

- 4- Find the acceleration and velocity of an object moving on an inclined track.
- 5- To determine the density of a solid which will be denser than water.

#### WORKING MODEL OF SCIENCE

##### **For Roll no-1 to 5**

- i) Prepare a working model of windmill( a machine that converts the kinetic energy of the wind into mechanical energy)

##### **For Roll no- 6 to 10**

- ii) Electrical Energy Working Model ( electrical energy convert to mechanical energy)

##### **For Roll no- 11 to 15**

- iii) Prepare a working model on acid base indicator.

##### **For Roll no- 16 to 20**

- iv) Prepare a Rain Water Harvesting 3D model.

##### **For Roll no- 21 to 25**

- v) Prepare a Nerve Cell structure model making project.

##### **For Roll no- 26 to 30**

- vi) Prepare a Global Warming and Greenhouse effect working model.

### (Chemistry)

Q.1 what is matter?

Q.2 What are the characteristics of particles of matter?

Q.3 What are physical state of matter?

Q.4 What is sublimation?

Q.5 Why does floats over water?

Q.6 Gases can be compressed but liquids can not be compressed much .why?

Q.7 Identify the condition which will increase the evaporation of water

Q.8 How does water in an earthen pot cool down during summer?

Q.9 why do people wear cotton clothes in summer ?

Q.10 Differentiate between the states of matter.

#### **Part -B (project work)**

Research a specific environmental issue (e.g. plastic pollution, acid rain ) and prepare a detailed report including causes , effects and possible solution.

**(Biology)**

- 1- To complete Experiment- 1(a) onion peel slide in lab manual.
- 2- To prepare working model. Roll number- 1 to 5 Topic- Nerve Cell  
Roll number- 6 to 10 Topic- Global Warming  
Roll number- 11 to 15 Topic- Water Pollution  
Roll number- 16 to 20 Topic- Acid Rain  
Roll number - 21 to 25 Topic- Human health and cleanliness  
Roll number- 26 to 31 Topic- Biodiversity
- 3- Revise chapter- 1 The Fundamental unit of life (cell)

**Social Science:**

1. Imperialism & its impact
2. Pastoral economy community in Asia and Africa
3. Women's role in history
4. Population characteristic and change in India
5. Gender status
6. Adolescent myths & issues
7. Conservation of natural resources
8. Water resources
9. Analyzing the composition for of the lok sabha
10. Election in India
11. Rights and duties
12. Preparedness for disaster

Note – Choose your project according to roll number. After roll no 12 you choose again by project 1. Any query you can contact your subject teacher.

Some important questions write done in holiday note book or fair note book.

1. Which was the subsistence crisis caused in France?
2. Which section of the French society got political right by the constitution of 1791?
3. What was the name given to newly elected assembly of the jacobins?
4. Which three causes led to the subsistence crisis in France during the old regime?
5. Describe the tennis court oath.
6. Describe how the new political system of constitutional monarchy worked practice in France.
7. List and explain the successful achievement of the National assembly from 1789-1791.
8. How did storming of Bastille become the main cause of the France revolution?
9. Write the size and extent of India.
10. Explain why  $82^{\circ}30'$  E an odd value has been chosen as the standard meridian of India.
11. India occupies an important strategic position in South Asia. Discuss.
12. The central location of India at the head of the Indian Ocean is considered of great significance. Why?
13. What do you know about India and her neighbour's ?
14. India's land routes have been important since ancient times. Explain.
15. Despite holding regular election, Mexico cannot be called a democratic country? Why?
16. Why was every election won by the party called PRI in Mexico? Any three reasons.
17. Democracy allows people to correct their mistakes. How is this possible?
18. Which methods were employed by PRI to win elections in Mexico? What were it's results?
19. Name any two non-farm activities in Palampur.
20. Highlights the basic constraints in raising production from farm.



21. Explain the term physical capital. Mention its different types with examples.
22. What is the aim of production? State any four requirements for production.
23. Explain two merits and three demerits of green revolution.
24. Mention any four non-farm production activities of Palampur. Which activity do you feel most useful for the villagers?
25. What is human capital? What are its functions?

