




Alpine International School

Session-2026-27



Holiday Homework



Dear Parents and students,

The most awaited vacation is about to begin!! As we step into the much-awaited summer vacation, I extend my warm wishes to each of you. This is a time to relax, rejuvenate, and spend quality moments with family, while also keeping the spark of learning alive. Summer vacation brings easy mornings, relaxing afternoons and playful evenings. It also brings a good time to plunge into the sea of imagination and creativity.

So let's get ready to learn something new every day.

To make your holidays both enjoyable and productive, our teachers have thoughtfully prepared Summer Vacation Homework.

IMPORTANT INSTRUCTIONS TO BE FOLLOWED:

- 1. This holiday homework should be completed within the stipulated time i.e. latest by 20-06-2026.*
- 2. Try to complete the work by yourself with full creativity and enthusiasm.*
- 3. Do the entire homework in a copy with less pages or as instructed by your teachers.*
- 4. Your Handwriting should be neat and clean.*
- 5. Draw or paste pictures wherever asked or needed.*
- 6. You must design a front page subject wise containing all the details about you.*
- 7. This holiday homework is a part of your assessment and marks will be given on it.*

These activities are designed to:

Strengthen concepts learned during the term

Encourage creativity and independent thinking

Foster healthy reading and writing habits

I encourage students to approach these tasks with curiosity and sincerity, without letting them overshadow the joy of the holidays. Parents are requested to guide and motivate their children, ensuring a balance between study, play, and rest.

Remember, learning is not confined to classrooms—it happens in conversations, in nature, in books, and in the little experiences of everyday life.

Let's be safe at home and enjoy with our parents and grandparents.

We look forward to seeing you refreshed and ready for the next educational journey.

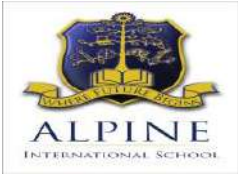
For query contact at 7454900717, 7454900730

(Contact the class teachers or subject teachers for any confusion in Holiday Homework)

Warm regards,

NIRMALA MALIK

Principal



Alpine International School

Holiday Homework (2026-27)

Class-IX

Information Technology

ASSESSMENT

1. Define networking?
2. Give any three advantages of networking.
3. Explain transmission media and its types.
4. Compare Wifi with WiMax
5. Explain the following terms :
6. Explain P2P Architecture and how it is different from Client Server architecture?
7. What do you mean by instant messages?
8. What is a style ? Name some style categories.
9. What is a character style? How is it different from paragraph style ?
10. What is cropping ? How is it useful ?
11. What are templates ? What are the advantages of templates?
12. How will you set up the default templates in writer?
13. What is a table of contents? How is it useful?
14. What are the advantages and disadvantages of verbal communications?
15. What are the advantages and disadvantages of written communications?
16. What is the purpose of consolidating data in spreadsheet? Discuss briefly.
17. What is RDBMS?
18. What is database server? Explain Primary key and foreign key.
19. List and explain two common safety hazards in a workplace.
20. What causes eye strain and how to avoid it?

Note: - Write answers only in computer Notebook.

MATHEMATICS HOLIDAY HOMEWORK

Heron's Formula

1. What is the length of each side of an equilateral triangle having an area of $4\sqrt{3}$ sq. cm?
2. What is the area of an equilateral triangle with side $\sqrt{3}/4$ cm?
3. The area of a rhombus is 96 cm^2 . If one of its diagonals is 16 cm, then find the length of its side.
4. Find the area of a rhombus whose perimeter is 200 m and one of the diagonals is 80 m.
5. The sides of a triangular park are in the ratio 3 : 5 : 7 and its perimeter is 300 m. Find its area and the length of perpendicular drawn on the biggest side.

Coordinate Geometry

1. A point lies on y-axis at a distance of 2 units from the x-axis. Write its coordinates.
2. Which of the following points belong to x-axis?
A(3,-1), B (4,0), C(-2, 0), D(0,3), E(-2,-1), F (-4, 0), G (1,0)
3. A park in the shape of a quadrilateral ABCD with A (8, 3), B (0,-1), C (-2, 3) and D (6, 7) is developed with flowers and green plants. Plot the points. Name the shape of the park. Will you support that green be developed in your city near the schools and hospitals? Give reasons.
4. What is the mirror image of the point (3, 9) with respect to x-axis?

5. Plot the points A (3, 0), B (3, 3) and C (0, 3) in a Cartesian plane. Join OA, AB, BC and CO. Name the figure so formed and write its one property.
6. A point lies on x-axis at a distance of 9 units from y-axis. What are its coordinates? What will be its coordinates if it lies on y-axis at a distance of 9 units from x-axis?
7. The length of perpendiculars PM and PN drawn from a point P, on x-axis and y-axis are 3 and 2 units respectively. Find the coordinates of points P, M, and N.
8. Plot three points A, B and C which have same abscissa 4 but lie in I and IV quadrants and on x-axis respectively. Also plot mirror image of A in y-axis.

Linear equations in two variables

1. Is line $2x + y = 3$ passes from origin. Explain your answer.
2. Find the solution of linear equation $x + 2y = 8$ which represents a point on : a. the x – axis b.)the y – axis c. The line parallel to x – axis and at a distance of 3 units above it.
3. A lending library has a fixed charge for first three days and an additional charge for each day thereafter. Neetu paid Rs. 21 for a book kept for five days. Write a linear equation which satisfies this data. Draw the graph for the same.

Do lab manual activity in your Maths lab manual

ENGLISH

Reading Module – 01
Worksheet – 01 to 10
Grammar Module – 02
Worksheet – 33 & 34
Writing Module – 03
Worksheet – 58,59,70,71

हिंदी

ग्रीष्मकालीन गृह कार्य

1-निम्नलिखित विषयों में से किसी एक विषय पर हिन्दी परियोजना पुस्तिका(फाइल)तैयार कीजिए।

1- प्रेमचंद

- | | | | |
|------------------|--------------------------------|---------------------------|--------------------|
| * संकेत बिंदु | * प्रस्तावना | * जन्म एवं प्रारंभिक जीवन | * शिक्षा और संघर्ष |
| * साहित्य योगदान | * वैवाहिक जीवन | * प्रमुख रचनाएं | * भाषा शैली |
| * मृत्यु | * समाज सुधार के रूप में भूमिका | | * निष्कर्ष |
- अथवा

2.कबीर दास

- | | | | |
|----------------------------|------------------|---------------------------|--------|
| * संकेत बिंदु | * प्रस्तावना | * जन्म एवं प्रारंभिक जीवन | * गुरु |
| * कबीर की रचना प्रमुख दोहे | * वैवाहिक जीवन | * विचारधारा | |
| * भाषा शैली | * समाज पर प्रभाव | * मृत्यु | |

* नोट – परियोजना फ़ाइल को आकर्षक बनाने के सुझाव

1-रंगीन पेन से शीर्षक लिखें

2-संबंधित चित्र चिपकाएं

3-हर पेज पर बॉर्डर बनाएं

4-अंत में 'सीखी गई बातें' लिखें।

S.ST

Difference Between North, South, East and West States of India

Complete your work in Project file.

1. North States of India

Some North Indian states are:

1.Uttar Pradesh

2.Punjab

3.Haryana

4.Himachal Pradesh

5.Uttarakhand

Features

BiClimate is mostly hot in summer and cold in winter.

Wheat is the main crop.

People mainly speak Hindi, Punjabi, and related languages.

Famous foods: Paratha, Chole Bhature.

Many historical monuments like the Taj Mahal and Golden Temple are found here.

2. South States of India

Some South Indian states are:

1.Tamil Nadu

2.Kerala

3.Karnataka

4.Andhra Pradesh

5.Telangana

Features

Climate is mostly warm and humid.

Rice is the main crop.

Languages spoken are Tamil, Telugu, Kannada, and Malayalam.

Famous foods: Dosa, Idli, Sambar.

Known for beaches, temples, and information technology industries.

3. East States of India

Some East Indian states are:

1.West Bengal

2.Odisha

3.Bihar

4.Jharkhand

Features

Heavy rainfall occurs in many areas.

Rice and tea are important crops.

Languages include Bengali, Odia, and Bhojpuri.

Famous foods: Rasgulla, Fish Curry, Litti Chokha.

Rich in minerals and forests.

4. West States of India

Some West Indian states are:

1.Maharashtra

2.Gujarat

3.Rajasthan

4.Goa

Features

Climate ranges from desert to coastal.

Cotton and sugarcane are important crops.

Languages include Marathi, Gujarati, and Rajasthani.

Famous foods: Dhokla, Dal Baati Churma, Pav Bhaji.

Important for trade, tourism, and industries.

Science

Biology

1- Complete Experiment- 1(a) onion peel slide in lab manual.

2- Revise chapter- 1 The Fundamental unit of life (cell).

Chemistry

Preparation of:

A) true solution of common salt, sugar and alum

a) A suspension of soil, chalk powder and fine sand in water

b) A colloidal solution of starch in water and egg albumin/milk in water and distinguish

Between these on the basis of

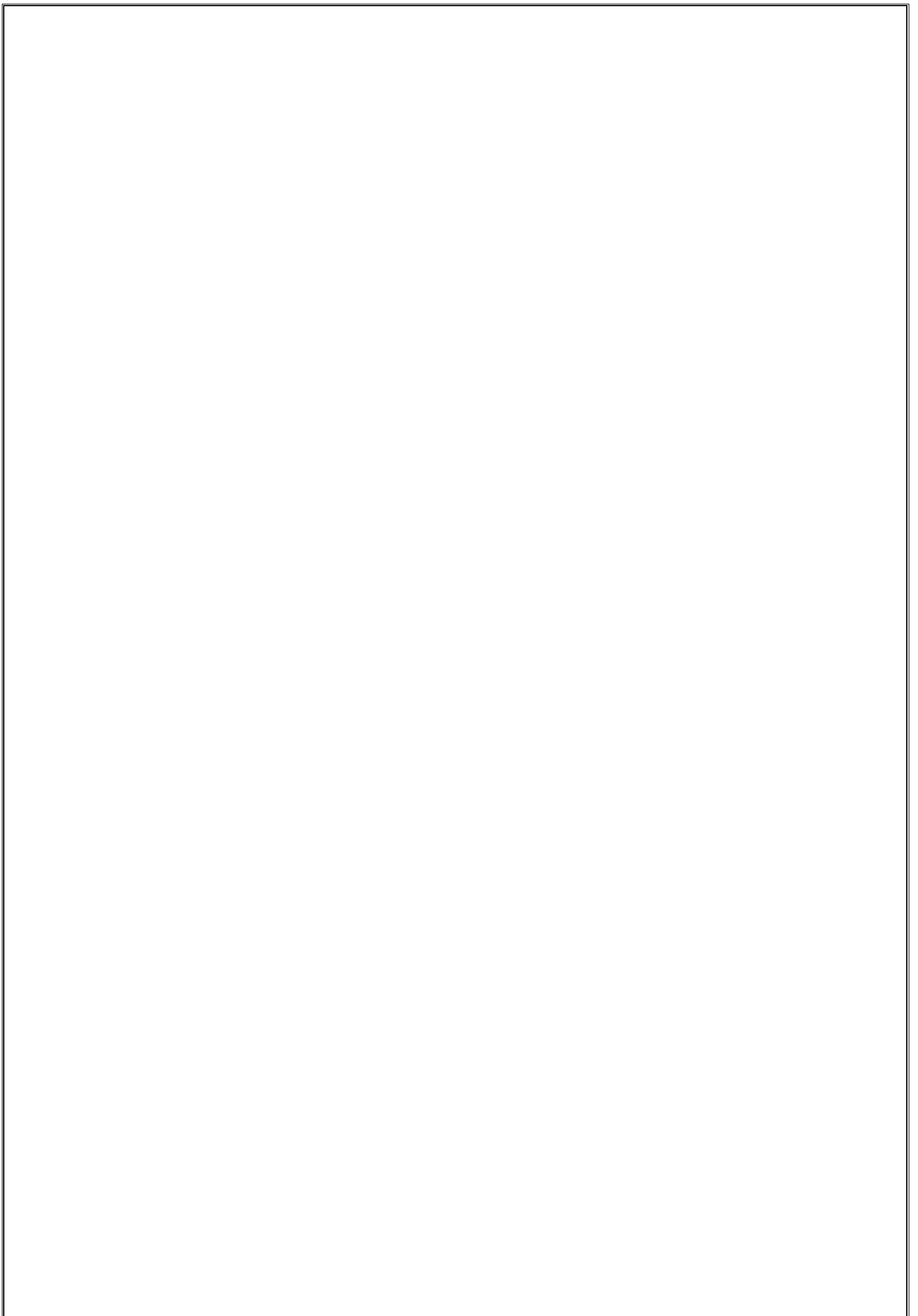
- Transparency
- Filtration criterion
- Stability

Physics:

1.Verification of the Laws of reflection of sound.

2. Determination of the density of solid (denser than water) by using a spring balance and a Measuring cylinder.

Write the given practical in your lab manual





• *Happy* •

SUMMER

- *Holidays* -