

Hello

SUMMER

BREAK ASSIGNMENT

good
vibes
only

- ✓ Learn
- ✓ Explore
- ✓ Create
- ✓ and
- ✓ Grow

LEARN

EXPLORE

CREATE

GROW

Summer is
the time to relax,
refresh and
achieve! ♥

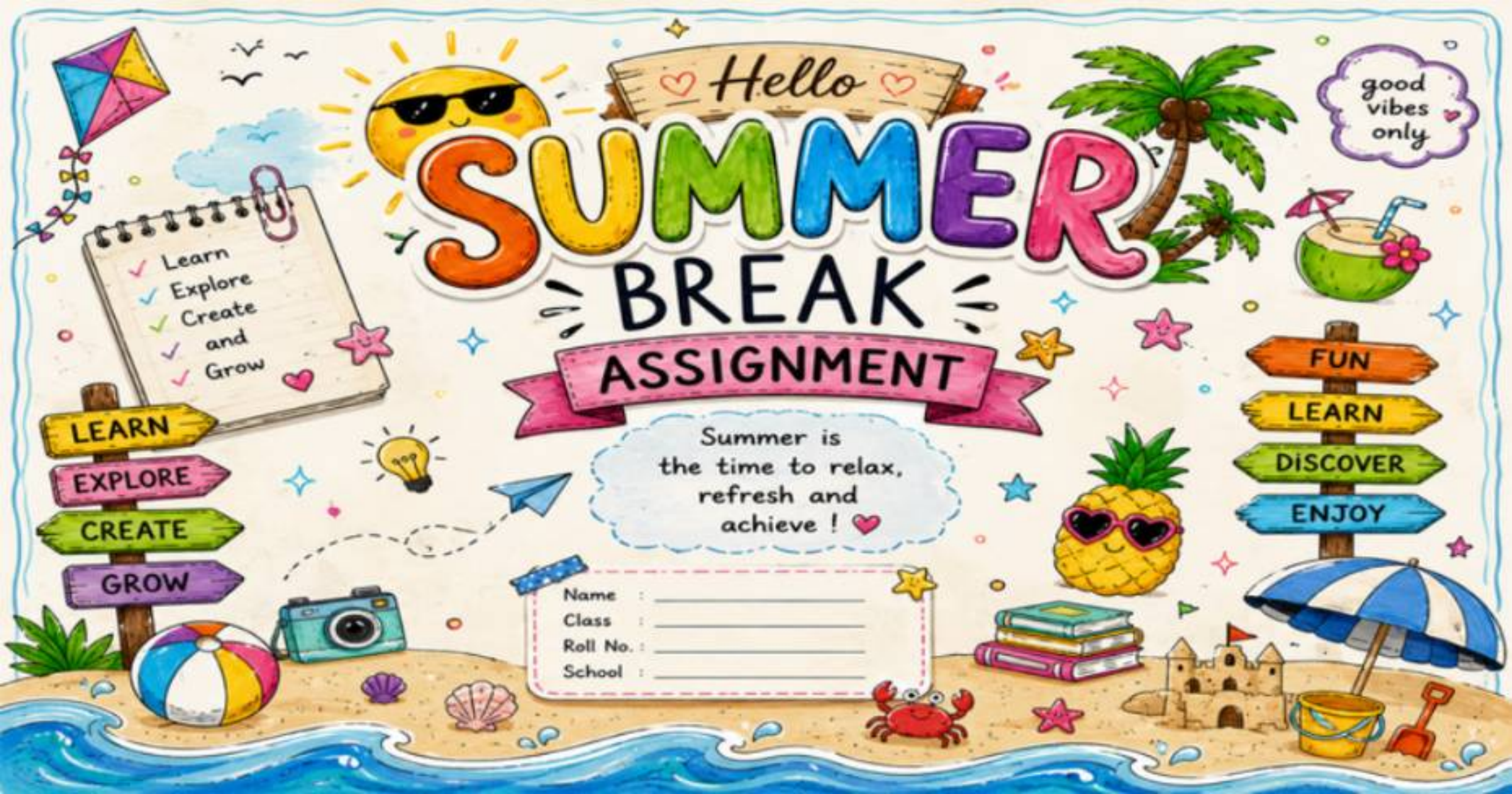
Name : _____
Class : _____
Roll No. : _____
School : _____

FUN

LEARN

DISCOVER

ENJOY



SUMMER BREAK

Dear Students,

holidays are finally here! Its time to relax, recharge, and rediscover the joy of learning beyond the classroom.

We have planned some creative activities to help you enjoy your break.

 Play a lot,  read your favorite books,  help your parents, and return with amazing stories to share! 

Happy Holidays!!

ENGLISH ASSIGNMENT



Write a Book Review (Project File with pictures).

Book: The Diary of a Young Girl by Anne Frank

Theme: Hope, Humanity and Self-Discovery

Topics to Cover:

- Anne Frank's life
- Rise of Nazism
- Important events of World War II
- Publication of her diary





HINDI ASSIGNMENT



भाग 1: अनिवार्य कार्य

1. आत्मकथा लेखन

"एक पेड़ की आत्मकथा" अथवा "एक पुस्तक की आत्मकथा" विषय पर रचनात्मक लेख लिखिए।

सामान्य निर्देश

- सभी कार्य स्वच्छ एवं सुंदर लिखावट में करें।
- रचनात्मकता एवं मौलिकता का विशेष ध्यान रखें।
- गृहकार्य विद्यालय खुलने के प्रथम दिवस जमा करना अनिवार्य है।

भाग 2: वैकल्पिक कार्य (कोई एक चुनें)

2. कविता लेखन

प्रकृति, देशभक्ति, पर्यावरण अथवा विद्यार्थी जीवन विषय पर स्वयं की रचित कविता लिखिए।

3. श्रवण एवं अभिव्यक्ति गतिविधि

प्रतिदिन समाचार सुनिए तथा किसी एक प्रमुख समाचार को अपने शब्दों में लिखिए।

4. पुस्तक पठन एवं समीक्षा

किसी एक हिन्दी कहानी/उपन्यास को पढ़कर उसका संक्षिप्त सार एवं अपनी प्रतिक्रिया लिखिए।

5. कला समन्वित परियोजना

"भारतीय संस्कृति एवं परंपराएँ" विषय पर चित्र, स्लोगन एवं कविता सहित आकर्षक प्रोजेक्ट तैयार कीजिए।



SCIENCE ASSIGNMENT



Biology

Assignment I - Art Integrated Project (Do according to your Roll Number)

File Presentation Instructions:

- Use a hard-bound or handmade decorative file
- Add a creative cover page (with state map outline + hand-drawn art)
- Include picture collage on every page
- Use colored pens for headings; add floral/leaf borders
- Minimum 15-20 pages; include hand-drawn diagrams/maps



Compulsory Pages: Cover Page, Acknowledgement, Index, Introduction, Main Content, Picture Collage, Conclusion, Self Reflection



Biology

Roll No. 1-8:

Topic: Programmes & Activities for Forest and Wildlife in Uttarakhand & Puducherry

- Introduction of both states (map collage), Forest cover comparison, Wildlife sanctuaries & national parks, Government forest conservation programs, Role of local communities, Case Study

Roll No. 9-16:

Topic: Environmental Movements in Uttarakhand & Puducherry

- Meaning of Environmental Movement, Famous movements in Uttarakhand, Environmental awareness in Puducherry, Role of women & youth, Impact of movements, Comparison table
- Creative Task: Timeline collage of important environmental events

Roll No. 17-24:

Topic: Schemes & Policies for Environmental Sustainability in Uttarakhand & Puducherry

- Sustainable Development, State Government schemes, Renewable energy initiatives, Waste management, Smart/Green city initiatives, 3 innovative eco-friendly ideas
- Creative Task: Pictures of schemes, policies, and slogans

Roll No. 25-32:

Topic: Types of Forests Found in Uttarakhand & Puducherry

- Types of forests, climate & soil conditions, Importance of forests, Conservation methods, Forest type diagrams
- Creative Task: Paste pictures of different types of forests



Roll No. 33-40:

Topic: Comparative Study of Flora & Fauna in Uttarakhand & Puducherry

- Climatic differences, Types of vegetation, Major plant/animal species, Endangered species, Comparison chart
- Creative Task: Flora vs Fauna Collage Spread Page

SCIENCE ASSIGNMENT

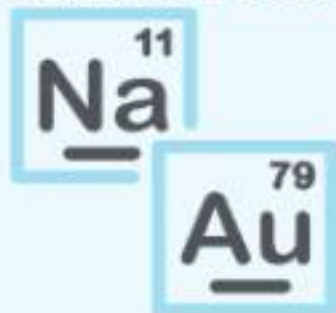
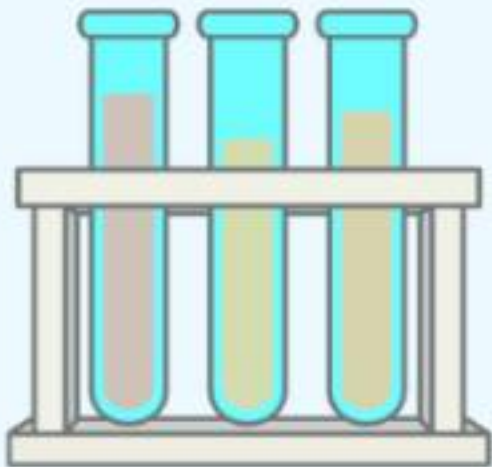
Chemistry



Learning by Doing

Topic: Observe Types of Chemical Reactions from Daily Life

- Observe at least 5 chemical reactions in daily life
- Paste or draw real pictures related to each reaction
- Identify the type of reaction and write balanced chemical equations
- Write observation and conclusion for each reaction in your chemistry notebook
- Decorate notebook neatly with borders and headings





ARTIFICIAL INTELLIGENCE



Create a Project File

1. 17 Sustainable Development Goal (SDG) Diagrams
2. Perceptron Models
3. ANN/CNN Architecture and Working Activity
4. Diagrams of: Regression, Classification, Clustering, Reinforcement Learning

5. Simple Python Programs:

- Calculate Area & Perimeter of rectangle (length & breadth as input)
- Convert time into seconds (Hours, Minutes, Seconds as input)

6. Programs using if Statement:

- Find the greatest number among three inputs
- Check whether a number is Even or Odd



7. Python Programs using loops:

- Print multiplication table in reverse order based on user input (e.g., $10 \times 10 = 100$... till 0)
- Find the sum of numbers from 1 to 100
- Print all odd numbers between 1 and 50
- Print all even numbers between 1 and 50



Social Science



Project work : The Empowered Consumer – From Awareness to Action

Part A: The "Visual Rights" Infographic

Prepare a file, by covering:

- * The 6 Rights: Use minimalist icons (a Shield for Safety, an Ear for Right to be Heard).
- * The Judicial Pyramid: A 3-step triangle showing District, State, and National
- * The Mark of Purity: Paste/draw the 4 pillars: ISI (Electronics), Hallmark (Gold), Agmark (Food), and FSSAI (Processed food).

Part B: The "Jago Grahak" Innovation

1. Mock Ad: Design a "Social Media Story" or a "Bus Stop Poster" for a consumer helpline.
 - * Catchy Slogan: e.g "Don't just pay, verify today!"
1. Ad Critique: Paste a real clipping of a "Sale" or "Discount" ad from a newspaper. Highlight the "Conditions Apply" text and explain how it could mislead a buyer.

Part C: The 100-Word Case Study

- Briefly summarize one real-world consumer court case.
- * The Issue: (e.g Expired medicine sold).
 - * The Right Used: (e.g Right to Seek Redressal).
 - * The Result: (e.g Shopkeeper fined ₹50,000).

Submission Checklist

- * Format: Clear, scannable, and color-coded.
- * Innovation: Use of real wrappers or newspaper clippings is encouraged.
- * Focus: Emphasize COPRA 2019 updates (Digital/E-commerce rights).



Art and Craft



- 1- Make a painting on table cover by using acrylic colours. (Only for boys) .
- 2- Stitch a cloth bag by using old jeans or any other cloths. (only for girls)





Maths Assignment



Activity 1

To draw the graph of a quadratic polynomial and observe:

1. The shape of the curve when the coefficient of x^2 is positive.
2. When the coefficient of x^2 is negative.
3. Its number of zeros.

Activity 2

To obtain the conditions for consistency or inconsistency of a given pair of linear equations in two variables graphically.

Activity 3

To obtain the solution of a quadratic equation geometrically.

Activity 4

To verify that the sum of first odd natural numbers is by activity method.





Maths Assignment



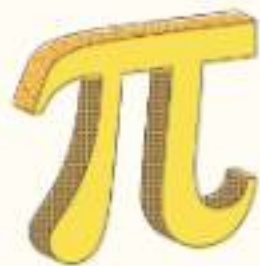
Activity 5

To find the sum of first even natural numbers.

Activity 6

You are President of School Maths Quiz club & you have to conduct a maths quiz in your school. Prepare a PPT on maths quiz taking different rounds including reasoning , problem solving, visual and rapid fire. Set your own rules for it.

Make at least 6 slides & bring the hard copy in a file.





Maths Assignment



CASE STUDY BASED QUESTIONS

1. A garden consists of 135 rose plants planted in certain number of columns. There is another set of 225 marigold plants, which is to be planted in the same number of columns.

Read carefully the above paragraph and answer the following question:



- (i) Find the maximum number of columns in which they can be planted, also find the total number of plants.
- (ii) Find the sum of exponents of the prime factors of the maximum number of columns in which they can be planted.
- (iii) What is the total number of rows in which they can be planted.



Maths Assignment



CASE STUDY BASED QUESTIONS

2. To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library. There are two sections- section A and section B of grade X. There are 32 students in section A and 36 students in section B.



(i) What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B?

(ii) If the product of two positive integers is equal to the product of their HCF and LCM is true then, the HCF (32, 36) is

(iii) Express 36 as a product of its primes.



Maths Assignment

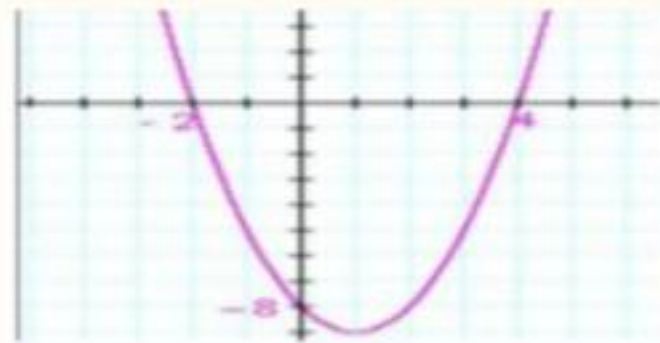


CASE STUDY BASED QUESTIONS

3. An asana is a body posture, originally and still a general term for a sitting meditation pose, and later extended in hatha yoga and modern yoga as exercise, to any type of pose or position, adding reclining, standing, inverted, twisting, and balancing poses. In the figure, one can observe that poses can be related to representation of quadratic polynomial.



- (i) What is the shape of figure shown?
- (ii) When the parabola is upwards, then what you can say about value of 'a'?
- (iii) In the graph how many zeroes are there and what are they?





Maths Assignment



CASE STUDY BASED QUESTIONS

4. A chemist has two solutions: one containing 30% alcohol and another 70%. How much of each must he mix to get 40 L of 40% solution?



(i) Form equations

(ii) Solve for the quantities of each solution.

(iii) If the chemist needs to create 20 L of 50% solution instead, how much of each would he need?



Maths Assignment



CASE STUDY BASED QUESTIONS

5. Digital images consist of pixels. A pixel can be considered as the smallest unit on a display screen in a mobile or a computer. The number of pixels, their size and colours depend on the display screen and its graphic card. Display screens are rectangular in shape and their size is defined as the length of the diagonal. Amit is designing a web page for a display on a screen whose size is 1000 pixels. The width of the screen is 800 pixels.



- (i) Write a quadratic equation which is used to calculate the height (h) of the screen?
- (ii) The size of a screen display can be measured in inches also. Is it possible to have a screen of size 13 inches where the width is 7 inches more than height? Give an example to justify.
- (iii) The size of a screen display can be measured in inches also. Is it possible to have a screen of size 13 inches where the width is 7 inches more than height? Give an example to justify.



Maths Assignment



CASE STUDY BASED QUESTIONS

6. Two students Preet and Vihar were solving a particular problem. The problem is as follows. Some students (say 'x') of Kendriya Vidyalaya, planned a picnic during autumn break. The budget for food was Rs. 480. But eight of these failed to go and, thus, the cost of food for each member increased by Rs. 10. Based on the above information answer the following.



- (i) If all students are going to the picnic, then, what is the cost of food for each student?
- (ii) If 8 students fail to go then, what is the cost of food per student?
- (iii) Write the equation to find the value of 'x'.
- (iv) Solve the equation: $x^2 - 8x - 384 = 0$



Maths Assignment



CASE STUDY BASED QUESTIONS

7. Your friend Veer wants to participate in a 200m race. He can currently run that distance in 51 seconds and with each day of practice it takes him 2 seconds less. He wants to do in 31 seconds. On the basis of the above answer the following questions:



- (i) Write an AP for the given situation.
- (ii) What is the minimum number of days he needs to practice till his goal is achieved.
- (iii) If n th term of an AP is given by $a_n = 2n + 3$ then find the common difference of an AP.
- (iv) Find the value of x , for which $2x$, $x + 10$, $3x + 2$ are three consecutive terms of an AP.



Maths Assignment



CASE STUDY BASED QUESTIONS

8. Garba is a form of dance which originates from the state of Gujarat in India. The name is derived from the Sanskrit term Garbha. Many traditional garbas are performed around a centrally lit lamp or a picture or statue of the Goddess Shakti. Traditionally, it is performed in circles around this lamp during the nine-day Indian festival Navarātrī. In the garba ground in a colony, it was decided to fix the participants to 1500. The dancers were to perform in concentric rings in such a way that each succeeding (outer) ring had 10 more participants than the previous (inner) ring.



- (i) If the first ring had place for 30 participants, how many dancers will be there in the 10th row?
- (ii) In how many circles will 1500 dancers dance as per this arrangement?
- (iii) How many dancers will be left out after 12th row?
- (iv) Suppose there are 13 circles of dancers, how many dancers are there in the middle ring?

Happy Summer Holidays

