K.C. INTERNATIONAL SCHOOL

JALPURA, SECTOR-01, GREATER NOIDA WEST, G.B. NAGAR, 201306

SUMMER HOLIDAY ASSIGNMENT

CLASS: – 9TH

ENGLISH	1. Make illustrative presentations on the following Topics through PPT (Any One) To be done in groups as discussed in the class. (i) The fun they had. (ii) The road not taken (iii) Sound of music part1 (iv) Sound of music part 2 **2-Letter Writing** You are a teenager but your parents still treat you as a small child. They always try to enforce their will on you. You are not allowed to attend late night parties and the clothes of your choice are always disliked by them. Write a letter to your parents expressing your feelings about how you would like to be treated. Also emphasize that you will never let them down by youracts or behavior. Your letter should be of about 200-250 words. You can use the following clues: *We are grown ups and would like tobe treated that way. *Parents should change with time *Parents should have faith in their children and understand that they are mature to differentiate between right and wrong. 3-Read the chapter 'Kathmandu' .Collect the information about the place and write them in notebook, stick some pictures. NOTE : The Holiday Homework should be done in Grammar Classwork register.
HINDI	1-. उत्तराखंड के किन्हीं दस स्वतंत्रता संग्राम सेनानियों की परियोजना फ़ाइल बनाएँ, जिसमें इन सेनानियों की फ़ोटो, नाम, जन्म-मृत्यु तिथि, महत्त्वपूर्ण कार्य/ स्वतंत्रता प्राप्ति हेतु सहयोग आदि का वर्णन हो। (A4 साइज़ पेपर में) 2 'अनुशासन या 'मोबाइल का ज़्यादा उपयोग विषय पर अनुच्छेद लिखिए । (120 शब्द) 3. सूचना-लेखन :— 'किसी का बैग खो गया' विषय पर सूचना लिखें । (80 शब्द) 4. औपचारिक मेल लिखें। (किसी भी कम्पनी के सीईओ या किसी कार्यालय के निदेशक को)

MATHS	1. Points A (5, 3), B (–2, 3) and D (5, –4) are three vertices of a square ABCD. Plot these points on a graph paper and hence find the coordinates of the vertex C.
	2. Write the coordinates of the vertices of a rectangle whose length and breadth are 5 and 3 units respectively, one vertex is at the origin, the longer side lies on the x-axis, and one of the vertices lies in the third quadrant.

3. Plot the points (x, y) given by the following table:

x-	2	4	-3	-2
y	- 4	2	0	5

4. Plot the following points and write the name of the figure obtained by joining them in order:
P(– 3, 2), Q (– 7, – 3), R (6, – 3), S (2, 2)

5. Locate the points (5, 0), (0, 5), (2, 5), (5, 2), (–3, 5), (–3, –5), (5, –3) and (6, 1) in the Cartesian plane.

6. Solve these following equations:
(i) $3x + 3 = 15$
(ii) $2y + 7 = 19$

Q.7: Find five rational numbers between 1 and 2.

Q.8: Find five rational numbers between 3/5 and 4/5.

Q.9: Locate $\sqrt{3}$ on the number line.

Q.10: Find the decimal expansions of 10/3, 7/8 and 1/7.

Q.11: What is the value of $(256)^{0.16} \times (256)^{0.09}$?

12. Compute the value of $9x^2 + 4y2^{\wedge}$ if $xy = 6$ and $3x + 2y = 12$.

13. Find the value of the polynomial $5x - 4x^2 + 3$ at $x = 2$ and $x = -1$.

14-Find value of polynomial $2x^2 + 5x + 1$ at $x = 3$.

15-Check whether $x = -1/6$ is zero of the polynomial $p(a) = 6a + 1$.

16-Divide $3a^2 + x - 1$ by $a + 1$.

17-Find value of k, if $(a - 1)$ is the factor of $p(a) = ka^2 - 3a + k$.

18-Write the coefficients of x in each of the following:
    $3x + 1$
    $23x^2 - 5x + 1$

19-What are the degrees of following polynomials?
    $3a^2 + a - 1$
    $32x^3 + x - 1$

20- Learn these formulas

1- $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$

2- $(x + y)^3 = x^3 + y^3 + 3xy(x + y)$

3- $(x - y)^3 = x^3 - y^3 - 3xy(x - y)$

4- $x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$

ACTIVITY:-

OBJECTIVE

To find the sum of the first *n*-even natural numbers.

MATERIAL REQUIRED

Cardboard, thermocol balls, pins, pencil, ruler, white paper, chart paper, adhesive.

METHOD OF CONSTRUCTION

1. Take a piece of cardboard of a convenient size and paste a white paper on it.
2. Draw a rectangle of suitable size on it (10 cm × 11 cm).
3. Divide this rectangle into unit squares.
4. Fix a thermocol ball in each square using a pin as shown in the Fig. 1.
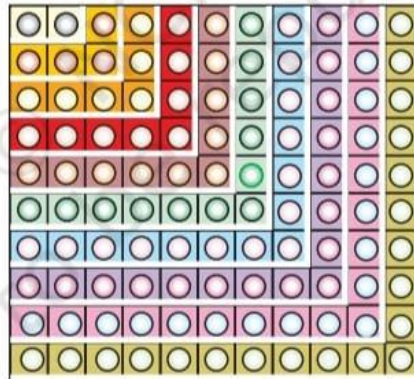5. Enclose the balls as shown in the figure.

Fig. 1

DEMONSTRATION

Starting from the uppermost left corner,

the number of balls in first enclosure = 2 (= 1 ×2),

the number of balls in first two enclosures = 2 + 4 = 6 (= 2 ×3),

the number of balls in first three enclosures = 2 + 4 + 6 = 12 (= 3 ×4),

⋮

the number of balls in first six enclosures = 2 + 4 + 6 + 8 + 10 + 12 = 42 (= 6 × 7)

the number of balls in first ten enclosures = 2 + 4 + 6 + 8 + ... + 20 = 110 (= 10 × 11)

This gives the sum of first ten even natural numbers.

This result can be generalised for the sum of first *n* even natural numbers as

$$S_n = 2 + 4 + 6 + ... + 2n = n \times (n + 1) \qquad (1)$$

OBSERVATION

For $n = 4$ in (1), S_n = ...

For $n = 7$ in (1), S_n = ...

For $n = 40$ in (1), S_n = ...

For $n = 70$ in (1), S_n = ...

For $n = 100$ in (1), S_n = ...

APPLICATION

The formula $S_n = n(n+1)$ is useful in finding out the sum of the first *n* even numbers.

SCIENCE	**PHYSICS**
	Q1-Distinguish between speed and velocity.

PHYSICS

Q1-Distinguish between speed and velocity.

Q2- Under what conditions is the magnitude of average velocity of an object equal to its average speed?

Q3. What does the odometer of an automobile measure?

Q4. What does the path of an object look like when it is in uniform motion?

Q5- The autometer of a car reads 2000 km at the start of a trip and 2400 km at the end of the trip. if the trip took 8 hours, calculate the average speed of the car in kilometer per hour and meter per second

Q6- When will you say a body is in (1) uniform acceleration (2) non-uniform acceleration

Q7- A bus decreases its speed from 80 km/h to 60 km per hour in 5 seconds. find the acceleration of the bus

Q8- A train starting from a railway station and moving with uniform acceleration attains a speed of 40 km per hour in 10 minutes. find its acceleration

Q9-What is the nature of the distance- time graph for uniform and non uniform motion of an object

Q10-What can you say about the motion of an object whose distance- time graph is a straight line parallel to the time Axis?

Q11- What can you say about the motion of an object if its speed time graph is a straight line to parallel to the time Axis?Q12- What is the quantity which is measured by the area occupied below the velocity time graph?

Chemistry
a) Define matter and give examples of different states of matter.
b) What is the difference between solid, liquid, and gas in terms of shape and volume?
c) Explain the characteristics of particles in the solid state.
d) How does the kinetic energy of particles change as matter changes from solid to liquid to gas?
e) Describe the process of sublimation with examples.
f) What factors affect the rate of evaporation?
g) How does the concept of diffusion apply to gases and liquids?
h) Explain the term 'latent heat of fusion' with an example.
i) Compare the compressibility of solids, liquids, and gases.
j) Discuss the concept of 'pressure' in relation to gases.
k) Conversion of temperature:-
l) 47 K to degree Celsius
m) 55 Fahrenheit to degree Celsius
n) 127 degree Celsius to Kelvin (k)
o) 37degree Celsius to Fahrenheit

	Biology 1. If you are provided with some vegetables to cook. You generally add salt into the vegetables during cooking process. After adding salt, vegetables release water. What mechanism is responsible for this.? 2. Bacteria don't have chloroplasts but some bacteria perform photosynthesis. Which part of bacterial cell performs this? 3. Why is endocytosis found in animal cell only? 4. Why does the skin of your finger shrink when you wash clothes for a long time? 5. Sachin puts some raisins in two breakers.One breaker contained water at room temperature and other had ice-cold water. After some time what will be the observation?State reason for the observation. 6. Define the terms protoplasm, cytoplasm and nucleoplasm. 7. How is a bacterial cell different from an onion peel cell? 8. Draw a plant cell and label the parts 9. Draw a well labelled diagram of eukaryotic nucleus. How is it different from nucleoid?

SOCIAL SCIENCE	**History and Civics**
	Q1. Which of the following believed social position must depend on merit?
	  a. Middle class b. Nobility c. Workers d. Peasant
	
	Q2. Political body of France is..
	  a. Duma b. Lok sabha c. Reichstag d. Estate general
	
	Q3. Democracy must be based on...
	  a. One party system c. Free and fair election
	  b. Choice from only the Ruling party d. All of the above
	
	Q4. Democracy is better than other forms of government because
	  a. It allows changes c. It allows voting
	  b. It allows right to opinion d. It allows us to correct it's own mistake
	
	Q5. Which group of people did not join the jacobin club?
	  a. Artisans c. Shopkeepers
	  b. Daily wage workers d. Men with property
	
	Q6. Which party always won election in Mexico since its independence in 1930 till 2000?
	  a. Revolutionary party c. Mexican Revolutionary party
	  b. Institutional Revolutionary party d. Institutional party
	
	Answer the following questions
	Q1. Write three main Features of the constitution of 1791?
	Q2. What do you mean by democracy? What are the Features?
	Q3. Explain the society of France under old regime.
	Q4. How can we analyze a country is democratic or non-democratic?

	Geography Prepare a project file on any one natural disaster and one human induced disaster(HID). The project should include the following: • Minimum 8 pages • Clear, related and coloured pictures • Problems faced by victims • Helping guidelines Post disaster * Your opinion on how to control HID Locate and label the following items on the given political map with appropriate symbols. • Eastern and western ghats • Tropic of cancer • The peninsular plateau • The Great Indian Desert • Northern plains • The Himalyan Mountain **Economics** Q.1- Make a project on modern farming methods along with pictorial representation. Q.2- Describe the concept of unemployment and types of unemployment in detail.
Art and craft	1. Write about "Who I am", first find 5 contemporary or western modern artist and then write about yourself in 50 words. 2. Make a geometric abstract painting in art file with 1 inch space gap on borders each side.
Music	1. Write & learn Top of the world & Meri maa Song in your music notebook. 2. Do more singing practice for above Songs 3. Learn & practice the national anthem properly. Jana-gana-mana-adhinayaka, jaya he Bharata-bhagya-vidhata Panjaba-Sindha-Gujrata-Maharata- Dravida-Utkala-Vanga Vindhya-Himachala-Yamuna-Ganga Uchhala-Jaladhi-taranga Tava shubha name jage Tava shubha ashisha mage Gave tava jaya-gatha Jana-gana-mangala-dayaka jaya he Bharata-bhagya-vidhata. Jaya he! Jaya he! Jaya he!

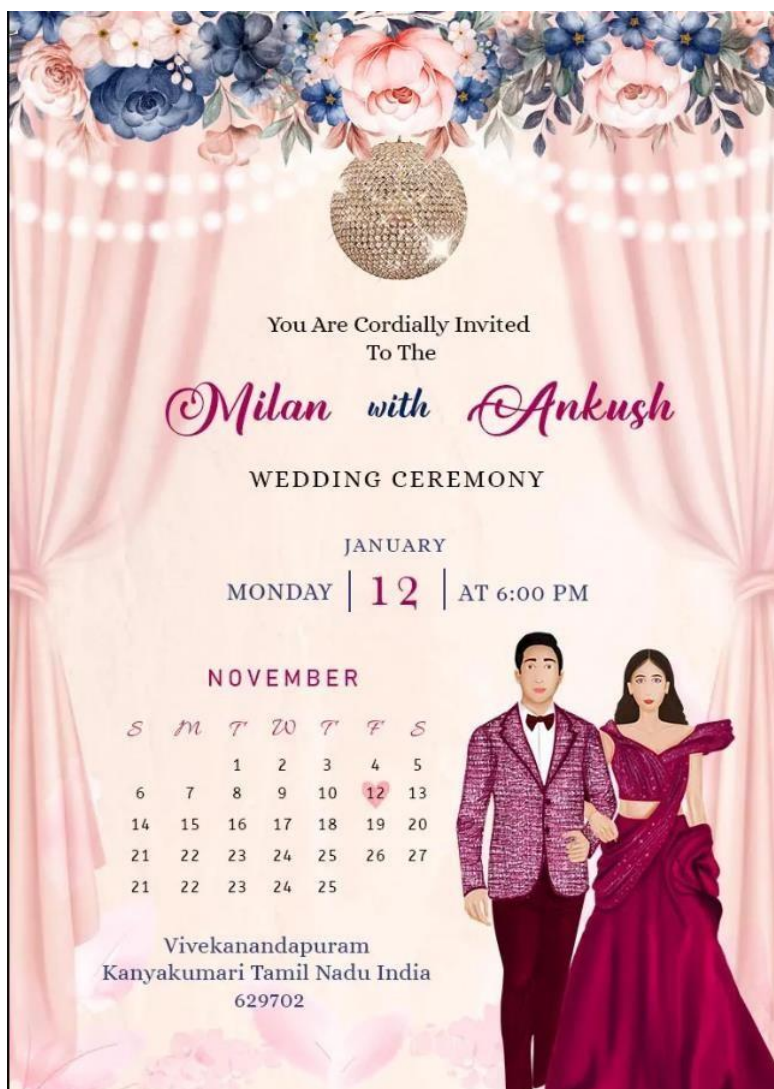|	
	Jaya jaya jaya, jaya he!
	4.Write 5 famous names of indian clsssical singers and musicians with their famous song /raag in your notebook
Dance	Prepare scrapbook on European Dance forms in details with pictures whether paste it or draw it.
COMPUTER	**PRACTICAL -1** **DESIGNING A CARD/CERTIFICATE/POSTER** Students, you all are supposed to design a CARD/ CERTIFICATE/ POSTERon the topic given below in Ms Word according to the first letter of your name. (Sample picture is given) 1. Wedding Invitation Card (include the new norms that are applied after the lock down like not more than 50 guests, wear a mask, social distancing etc.) (Name starting from A to F) 2. Your school has organised Annual Sports Day . Design the certificate including the school name, Participant name ,position and the event (format with borders ,pictures etc.) (Name starting from G to N).

3.Poster to aware the people against the cruelty done to innocent animals. (Name starting from O to Z)

PRACTICAL -2
Implementing Mail Merge

Design an invitation letter to be sent to parents for orientation program of class IX to be held on 2-July-2025 at 9:00 a.m..

Create a recipient list/data source of 10 parents and merge the fields in the letter.

Take the printout of :

a.   Recipient list/data source.

b.   Letter with insert merge field

REVISION OF PT-1/UT-1 SYLLABUS (2024-25)

1.	**English**	(1) Fun they had (2) The road not taken (3) The sound of music (4) Paragraph writing (5) Grammar
2.	**Hindi**	पाठ -1 दो बैलों की कथा पाठ -2 ल्हासा की ओर पाठ -9 साखियां एवं सबद व्याकरण साहित्य पाठ -2 समास पाठ -3 अर्थ की दृष्टि से वाक्य भेद पाठ -2 पत्र लेखन
3.	**Maths**	(1) Rational number (2) Polynomial (3) Coordinate geometry
4.	**Science**	**Biology** Ch- Fundamental unit of life **Chemistry** Ch- 1 Matter in our surroundings **Physics** Chapter(Motion)
5.	**Social science**	**Geography** ✓ India size and location **History**.. Chapter 1 The French revolution **Civics**… Chapter1 What is democracy why democracy **Economics** Chapter-1 The story of village palampur

6.	Computer	**Employability Skills: -** **Unit -1 Communication Skills** Chapter - 1 (IDENTIFYING DIFFERENTELEMENTS OF COMMUNICATION) Chapter - 2 (DEMONSTRATING METHODS OF COMMUNICATION) **Subject Specific Skills** Unit - 1 Introduction to IT and ITes Industry
7.	**Art and Craft**	1. Write about "Who I am", first find 5 contemporary or western modern artist and then write about yourself in 50 words. 2. Make a geometric abstract painting in art file with 1 inch space gap on borders each side.
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NOTE: - School will re-open on 1st – July- 2024