MGD GIRLS' SCHOOL, JAIPUR
HOLIDAY ASSIGNMENT
CLASS – 10
SESSION 2024-2025

INDEX

English

1. An autobiography is a life story of a person written by the person himself, while, a biography is a life story of a person documented by someone else.

   Read an autobiography or a biography of two famous personalities and write a review based on the following points, on an A4 sheet. It must be filed in the Art Integrated file.
   - Life journey
   - Their source of Inspiration
   - Problems encountered
   - Solution to the problems/ obstacles
   - Qualities that you learnt (at least 2)
   - Contribution to society

2. Research on famous books and their authors (about their works). Prepare a quiz of ten questions on famous quotes related to the research on these books and their authors.

Hindi

निर्देश –
- सभी प्रश्नों के उत्तर निर्देशानुसार दें।
- प्रश्न संख्या 1, 3, 4 , 5 को पोर्टफ़ोलिओ में करें।

1 भक्तिकाल की प्रमुख शाखाओं के बारे में बताते हुए अष्टछाप के प्रमुख कवियों के व्यक्तित्व और कृतित्व पर प्रकाश डालिए ।

2 "मेरे जीवन के संगतकार "इस विषय पर अपने अनुभव के आधार पर कविता अथवा अनुच्छेद लिखिए।

3 सूरदास के पदों को पढ़कर गोपियों तथा उद्धव के बातचीत के अंश को संवाद / सचित्र कॉमिक स्ट्रिप के रूप में लिखिए।

4 हिन्दी भाषा के प्रमुख कवियों, लेखकों , व्याकरण ,साहित्यिक रचनाओं से संबंधित वर्गपहेली तैयार करें। (सामूहिक गतिविधि)

5 अतिशयोक्ति,मानवीकरण, श्लेष अलंकारों का प्रयोग करते हुए सहज,बोधगम्य नाटक / एकांकी लिखिए ।

नोट: - उपर्युक्त सभी कार्यों में छात्राएँ अपने सृजनात्मक,कलात्मक एवं रचनात्मक कौशल का परिचय दें ।

Sanskrit

निर्देश –
सभी प्रश्नों के उत्तर निर्देशानुसार नोटबुक / फोल्डर / पोर्टफोलियो में दें।

1. **श्रवण कौशल** – संस्कृत प्रार्थना/ गीत गायन/ भगवद्गीताधारित पांचवें अध्याय के श्लोक सुनकर कंठस्थ करें ।

2. **लेखन कौशल –**

(i) किसी भी विषय पर संस्कृत में संवाद लेखन करें।
(ii)- पंचतंत्र पर आधारित किसी भी लघु कथा को चित्रात्मक शैली में लिखें।
(iii) वर्णमाला / उच्चारण स्थान / सन्धि व्याकरण आधारित विषय पर फ्लो चार्ट का निर्माण करें।

3. **वाचन कौशल -** पठन कार्य में प्रतिदिन एक संस्कृत कथा को पढ़ें तथा मनन करें। ग्रीष्मकालीन अवकाश के पश्चात विद्यालय खुलने पर कक्षा में वाचन करें ।

French

Instructions:-
All answers to be given in note book

1. To write a letter to your Indian friend describing French education system in 80 words.
2. To write a letter to your friend advising as to how to secure good Job.
3. To solve grammatical exercises based on Future Anterieur and relative pronoun compose from Textbook Bilan.
4. To learn and write conjugations of any 20 verbs in all tenses done in class 9.
5. To frame sentences with any 10 verbs with their meaning written in English in NB. To speak them out on resuming back to school.
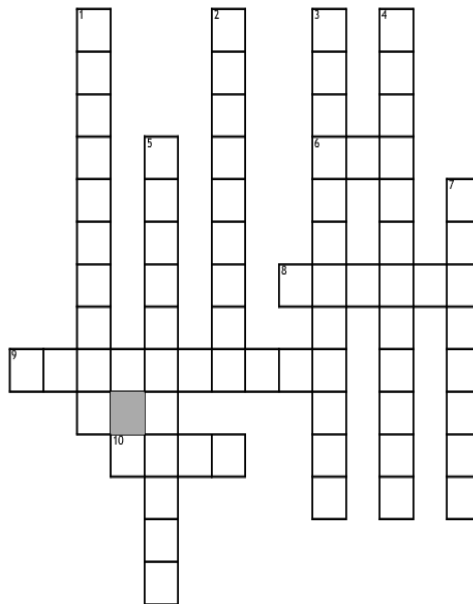
Mathematics

1) TEST YOUR MEMORY (CROSSWORD)

A.

Linear equation in two variables

Across

6. 2x+3y=5&3x+2y=7has solutions

8. Two linear equations in the same two variable are called a pair of equation

9. System of equation having infintely many solution

10. 3x+2y=6&6x+4y=12has solution

Down

1. When linear equation have infinitely many solution lines are

2. System of equation having atleast one solution

3. System of equation having no solution

4. When linear equations has a unique solution lines are

5. Pair of linear equation can be represented by

7. When linear equation have no solutions lines are

B.
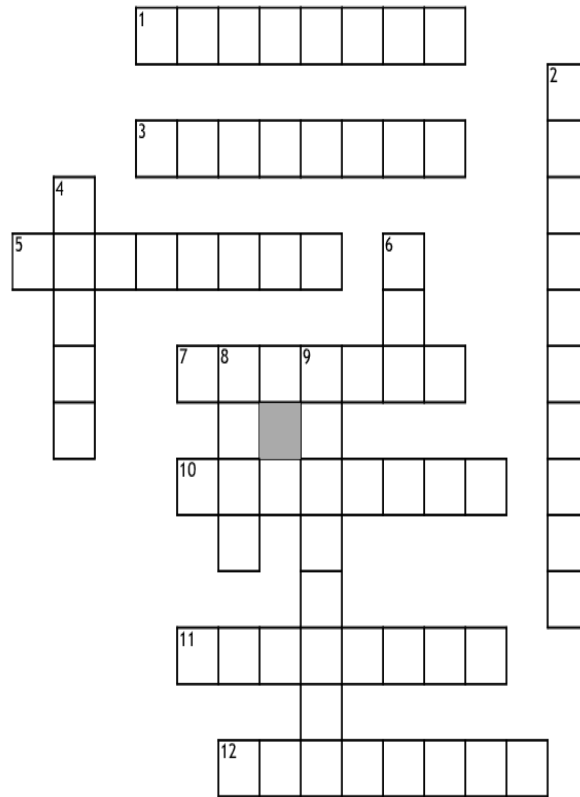
Linear Equations

Across

1. the graph of a linear equation in two variable is a _____ line.

3. Graph of the equation of the type x=a is a line parallel to y-axis

5. answer of an equation is also called its _____

7. An _____ pair of numbers used to represent solution of an equation in two variables

10. Every point on the graph of a linear equation in two variables is a _____ of the equation

11. A term whose values keeps changing is called a_____.

12. A term whose values do not keep changing is called a_____.

Down

2. A linear equation in two variables has _____ many solutions

4. Every solution of the linear equation in two variables represents a _____on the graph of the equation

6. Number of solution an equation of the type ax + b=0

8. Answer of an equation is also callesda

9. A statement of equality is called an _____.

A.

		4	7	1	9	6		
		9	3		5	4		
7		5					4	
	9					7		1
4		6					8	
6		1	2		7		9	
9		3					7	
2		7	9	8	1		5	

B.

						7	2	9
					6			
			9	8	2	3		
5	8	4	2	3	7	9		6
1								
9		7	6		5			
2	1		5					
			7				9	
3	7	9	1	6	8		4	

Q1. Find the HCF and LCM of 40 ,36 and 126 using prime factorization method.

Q2. The HCF of two numbers is 23 and their LCM is 1449. If one of the numbers is161, find the other.

Q3. Find the smallest number which when divided by 25 ,40 and 60 leaves remainder 7 in each case.

Q4. If the zeros of the polynomial $x^2- 5x + k$ are the reciprocal of each other, then find the value of k.

Q5. Find the zeros of the quadratic polynomial $y^2+4\sqrt{3}y-15$ and verify the relation between zeros and the coefficients.

Q6. If α and β are the zeros of the quadratic polynomial $p(x) = x^2- 2x + 3$, then form a quadratic polynomial whose zeros are α+2 and β+2.

Q7. Solve each of the following pair of linear equations:

   a) $7x + 11y = 3$ b) $\frac{x}{3} + \frac{y}{4} = 6$

        $8x + y = 15$ $\frac{x}{6} + \frac{y}{2} = 6$

   c) $3x + 2 y = 8$ d) $5x + 8y = 9$

        $4x - 5y = 3$ $2x + 3y = 4$

Q8. Using graphs find whether the pair of linear equations $3x - 5y = 20$, $6x - 10y + 40 = 0$ is consistent or inconsistent.

Q9. In each of the following pairs of linear equations determine whether they have a unique solution, no solution or infinite number of solutions. In case there is a unique solution, find it:

   a) $6x + 5y = 4$ b) $2x + y = 6$ c) $x - 2y = 4$

        $9x + 7.5y = 6$ $2x - y = 2$ $3x - 6y = 19$

Q10. The sum of a number of two digits and the number obtained on interchanging the digits is 99. If 5 is added to the number then it is 4 less than 6 times the sum of the digits. Find the number.

Q11. A fraction becomes $\frac{1}{2}$ when 1 is subtracted from the numerator and 2 is added to the denominator. It becomes $\frac{1}{3}$ when 7 is subtracted from the numerator and 2 is subtracted from the denominator. find the fraction.

Q12. Three years ago, the age of a mother was five times the age of her daughter and 2 years hence she will be thrice as old as her daughter will be. Find their present ages.

Q13. In a parking lot parking charges for 15 cars and 7 scooters is Rs. 171 and parking charges for

10 cars and 3 scooters is Rs. 109. Find the parking charges for 2 cars and 1 scooter.

Q14. Find the value of k, for which the roots of the quadratic equation $kx(3x-4) + 4 = 0$ are equal.

Q15. Find the roots of the following quadratic equation using quadratic formula:

$2(x+1)^2 - 5(x+1) = 12$

4. SHOW YOUR CREATIVITY

Q. Draw the graph of $x + 3y = 10$ and $-2x + 5y = 13$. Use any art form or pattern in the region bounded by these lines and x- axis.

Science

General Instructions:
1. The questions given below are concept based. You should be well versed with the content of the chapter.
2.Read the chapter and the notes provided wholeheartedly and solve the questions.
3.Do the given assignment in any sheet and make folder for the same.
4.Submission on opening.

CHEMISTRY
1. On adding hydrochloric acid to copper oxide the solution formed is blue green. Predict the compound formed and write the balanced chemical equation?
2. What are the conditions that promote corrosion?
3. Tell whether the heat is evolved or absorbed when quick lime is added to water? Give balanced chemical equation of the reaction involved.
4.What happens when lead nitrate is thermally decomposed? Give the balanced chemical equation.
6.Why do we store silver chloride in dark-coloured bottles?
7.Balance the following chemical equations:
a) $KMnO_4 + HCl \rightarrow KCl + MnCl_2 + Cl_2 + H_2O$
b) $Al + HCl \rightarrow AlCl_3 + H_2$
8.Write the balanced chemical equation when calcium hydroxide reacts with carbon dioxide in small amount and in excess?
9.What happens when a piece of
a) Zinc metal is added to copper sulphate solution?

b) Aluminium metal is added to dilute Nitric acid?

c) Silver metal is added to copper sulphate solution?

10.Give one example each of the following reactions:

a) Combination reaction b) Redox reaction c) Double displacement reaction d) Decomposition reaction e) Displacement reaction

11.Explain electrolytic decomposition of water with the help of well labelled diagram?

BIOLOGY

Make a MIND MAP /CONCEPT MAP on any topic from the chapter "LIFE PROCESS"-NUTRITION/RESPIRATION/TRANSPORTATION/EXCRETION

(MIND MAP/CONCEPT MAP -Mind mapping is simply a diagram used to visually represent or outline

information. It is a powerful graphic technique you can use to translate what is in your mind into a visual picture. Since mind mapping works like a brain, it allows you to organize and understand information faster and better)

Read and understand the chapter carefully, choose any topic, categorize, and organize the ideas you have brainstormed and identify their relationships. Use a single page or space and place information and check its connections. Use colors, images, and key words as they aid in enhancing your memory and retention.

For support, you may use link shttps://www.mindmeister.com OR https://www.entracei.com

Your work will be judged on the following Rubrics: -

Creativity/Content knowledge/Presentation/Expression/Artifact and this will be part of Portfolio which will be marked for internal assessment.

Take the time to learn how to Mind Map with these seven steps, and use the Mind Map principles

1. Start in the centre of a blank page. Your brain has more freedom to spread out in all directions

2. Use an Image or Picture for your central idea

3. Use Colors throughout Map

4. Connect Main Branches to the central image

5. Use One Key Word per line as single Key Words give your Mind Map more power and flexibility

6. Use Images (wherever possible)

Please note: These are just guidelines; you may be creative in your presentation!!

PHYSICS

Write down the following

Lab practicals given below, neatly in the practicals file:

1.Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. Unit-IV

2.Determination of the equivalent resistance of two resistors when connected in series and parallel. Unit-IV

3.Determination of the focal length of: Unit-III

i) Concave mirror

ii) Convex lens

by obtaining the image of a distant object.

4.Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the

result. Unit - III

5.Tracing the path of the rays of light through a glass prism. Unit-III

The Practicals should specifically consist of the following details:
1.Aim of the activity
2 Materials required
3.Diagram (To be made on the blank page using pencil)
4.Observation table (To be made on the blank page using pencil)
5.Result
6.Precautions
7.Sources of error
For reference: www.learncbse.in
CBSE lab manual
Please note:
*Readings of observation table to be written when the practical will be done in lab. *

Social Science

WORK PLAN 1
For **inter disciplinary project** students to be divided into groups where they have to work individually on preparation of slides on the given topic to each.
Topics are as follows:
1. Trace the history of globalization and point out the shifts within the process.
2. Analyse the implication of globalization on local economies.
3. Examines the importance of transportation for the economic growth and development in India.
4. Analyse the impact of roadways and railways on the national economy. Evaluates the challenges faced by the roadways and railway sector in the country.
5. Discuss how globalization is experienced differently by different social groups.
6. Connect the role of means of transport and communication in the process of globalization.
7. Investigate the factors that facilitated the growth on MNC 's

Each group will have to prepare the *presentation with 5-6 slides* in which compiler have to incorporate learning objective and learning outcome of the ppt.
Students *should incorporate the following aspects* in the project e.g. -
1. Research work (interview)
2. Role play
3. Story based presentation
4. Art integration – collage, poster
5. Interactive bulletin board
6. Concept map
7. Gallery work
8. Integration of technology

WORK PLAN 2

FILE WORK :

Individual projects to be prepared by each student on any one of the following topics (topic to be allotted by the concerned subject teacher)–

1. Consumer Rights- type of rights enjoyed by consumers
2. Consumer redressal process
3. Consumer awareness –
     I.   food items
     II. electronics
     III. jewellery
4. Consumer awareness through interviews and case study
5. Narmada bachao aandolan and Tehri dam aandolan
6. Swachh Bharat abhiyan
7. Chipko movement
8. Environment movement- Rajendra Singh Waterman of India and Tiloniya village
9. SDG 1, 2
10. SDG 3
11. SDG 4
12. SDG 5
13. SDG 6
14. SDG 7
15. SDG 8
16. SDG 9
17. SDG 10
18. SDG 11
19. SDG 12
20. SDG 13
21. SDG 14
22. SDG 15
23. SDG 16
24. SDG 17

Compulsory content to be included in the project are:

1. Content /index
2. Learning objective
3. Introduction to the topic
4. Case study (if any)
5. Conclusion – innovative ideas generated in the process
6. Bibliography
7. Questionnaire

Data Science

I.   Write a paragraph on how Use of Statistics help in Data Science.
II. Refer to Data Science at a Glance and Define and Learn these terms:
     1. Subset
     2. Mean
     3. Median

4. Standard Deviation
5. Random Variables
6. Probability
7. Probability Distribution
8. Statistical solving process with Diagram
9. 5 V's of Big Data
10. Statistical Formulas on page number 231

Information Technology

Assignment 1:- Make a digital poster showing different types of communication barriers and measures to overcome them.
OR
Assignment 1:- Your school is organising a trip to Bhutan. Make an attractive travel plan for the same using MS Word.

Assignment 2:- Make your resume in MS Word and highlight instances where you worked independently in your academic experience. Design your resume on the following parameters:
1) Projects in which you were working independently
2) Your responsibilities
3) How you met your goals
4) Your achievements

NOTE:- After completing the assignment you have to take coloured print-outs.

Multi-Media

Q1. Explain the methods of communication.
Q2. Write down the importance of Non-verbal communication.
Q3. Explain the types of feedback.
Q4. What are the barriers to effective communication?
Q5. Explain the types of sentences.
Q6. What are the basic parts of speech?
Q7. What are the advantages of verbal communication?
Q8. What are the disadvantages of verbal communication?
Q9. What is the importance of feedback?
Q10. Write down the 7CS.

Artificial Intelligence

Q1   Make a ppt and prepare a chart (in your practical file) about 7 Cs of effective communication.

Q2   Prepare all exercises of Chapters 1 and 2 of Employability skills.

Food Production

Write recipes for protein rich, fat rich, carbohydrate rich dishes (one each) in practical file.
Make a power point presentation of one recipe each for at least five methods of cooking and paste

miniature of slides in practical file.
Make a chart or power point presentation on various cuts of vegetables and fruits.
Note- work in practical file to be done as discussed in class.

Introduction to Financial Market

1. Revise Chapters 1, 2 and 3
2. Complete the assigned Project Work as per the guidelines discussed and shared in the Class.

Art Education

Art

Make one Alpana painting.

Vocal Music

1. In your music notebook write down all these:
   - Alankaars 1 to 10
   - Definitions- Alankaar, sangeet, taal
   - Taal- Dadra, kehrwa, teen taal, rupak
   - Prayers- he maa saraswati tumhari vandana karein, jai sharde maa sharde (based on raag yaman)
   - Patriotic Song- nij rasthra ke shareer ke shringaar ke liye, saare jahaan se accha
   - School prayer- I would be true
   - School song- Oh come let's sing of MGD
   - Folk song- anyone regional folk song of your choice
   - National song- Vande matram
   - National anthem
2. Learn and practise all songs and prayers.
3. I will check the notebooks once the school reopens.

Sculpture

Clay modeling: Mosaic tray

Instrumental Music (Tabla)

Practice the following "taal" and "palte"

ताल

1. ताल तीनताल
   धा धिन धिन धा । धा धिन धिन धा
            *   2
   धा तिन तिन ता । ता धिन धिन धा
          0   3

2. ताल कहरवा
   धा गे ना ती । ना क धी ना
    *   0

3. ताल दादरा
   धा धी ना । धा ती ना
     *   0

4. तालरूपक
   तीन तीन ना । धिन ना । धिन ना
   0   2   3

5. कायदातीनताल
   धा धा तीट । धा धा तिन ना
   ता ता तीट । धा धा तिन ना

(ii) पलटे

धा धा ती ट । धा धा ती ट
         धा धा ती ट । धा धा तिन ना
         ता ता ती ट । ता ता ती ट
         धा धा ती ट । धा धा तिन ना

धा ती ट धा । ती ट धा धा
धा धा ती ट । धा धा तून
ता ती ट ता । ती ट ता ता
धा धा ती ट । धा धा तूना

धा धा धा धा । ती ट ती ट
धा धा ती ट । धा धा ती ना

ता ता ता ता । ती ट ती ट
धा धा ती ट । धा धा ती ना

<u>**Kathak**</u>

Learn a dance in Kathak style semi classical form

<u>**Bharatanatyam**</u>

1. Learn a semi classical dance on any song and record a video of 1-2mins.
2. Write about origin of dance in your notebook.