MGD GIRLS' SCHOOL, JAIPUR
HOLIDAY ASSIGNMENT
CLASS – 9
SESSION 2024-2025

INDEX

1. **ENGLISH**

2. **HINDI**

3. **SANSKRIT**

4. **FRENCH**

5. **MATHEMATICS**

6. **SCIENCE**

7. **SOCIAL STUDIES**

8. **FOOD PRODUCTION**

9. **ARTIFICIAL INTELLIGENCE**

10. **MEDIA**

11. **INFORMATION TECHNOLOGY**

12. **DATA SCIENCE**

13. **INTRODUCTION TO FINANCIAL MARKET**

14. **ART EDUCATION**

ENGLISH

WORDS AND EXPRESSIONS
Complete Units1,2,3, 4and5in theEnglish Work Book Words and Expressions

MY QUIZ
Prepare 10 MCQ Quiz based on the life and works of any one author/poet you have recently read.
Prepare the Quiz in word document. Prepare an answer key of the same.
Take printouts of both and submit the hardcopies. Save the soft copies to be used later.
To be done in A4 Size white sheets.

SpeakingSkills
Prepare a paragraph of 150-200 words For speaking assessment on one of the following topics:
How to ensure not to get lost!
OR
Will schools of future have no classrooms and no teachers?

हिन्दी

निर्देश – सभी कार्य एक पृथक फ़ोल्डर में करें।

1. रचनात्मक लेखन – * आपके द्वारा की गई किसी यात्रा का रोचक वर्णन करें

स्वयं की पहचान – अपनी खूबियों और खामियों का ईमानदारी पूर्वक वर्णन करते हुए आत्मकथा लिखें।

2. आओ कुछ अच्छा पढ़ते हैं - * शरद जोशी , हरिशंकर परसाई की रचनाएं पढ़ें एवं दोनों की एक-एक रचना का सार लिखें (अपनी पसंद की)

 * अंधेर नगरी, एक और द्रोणाचार्य , कबीर खड़ा बाजार में – में से कोई एक नाटक पढ़ें एवं आपके पसंद के संवाद लिखें (8-10) * कुछ कहानियाँ , कोई उपन्यास पढ़ें – अपनी रुचि के अनुसार (चर्चा हेतु)

 3. साहित्य का इतिहास – हिन्दी साहित्य के चार कालों का वर्णन करते हुए भक्ति काल एवं आधुनिक काल के प्रमुख कवियों के बारें मे लिखें - दोनों काल के चार-चार कवियों का परिचय , रचनाओं पुरस्कार आदि का वर्णन करें – अपने पसंद के कवि की कोई दो रचनाएं याद करें (कक्षा में सस्वर वाचन हेतु)

 4. आओ देखें और चिंतन करें – भारत एक खोज , चाणक्य धारावाहिक देखें

5. FM RADIO PINK CITY – स्वयं को RJ मानते हुए निम्न में से किसी विषय पर कार्यक्रम प्रस्तुत करने हेतु स्क्रिप्ट लिखें | आवश्यकतानुसार गाने की पंक्तियाँ / शेर/ दोहे आदि का प्रयोग करें |

विषय – शाम सुहानी, ये जीवन है , मौसम मस्ताना , साथी हाथ बढ़ाना

संस्कृत

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 ।
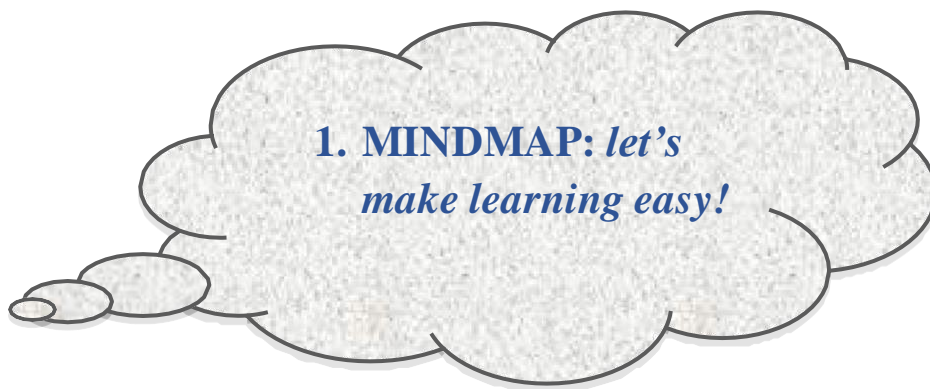
FRENCH

Instructions:-
All answers to be given in note book
1. To write a letter to your french friend describing your family in 80 words.
2. To draw/make a PPT on your whole day routine.
3. To give a pictorial description of any 2 Famous French Personalities in 5 lines each.
4. To learn french verbs of <ER , RE, IR, OIR> endings and write conjugations of every ending verb 5 each and frame sentences from them.
5. To make a PPT with you as a centre and telling about your age, your family members name their age, their professions.
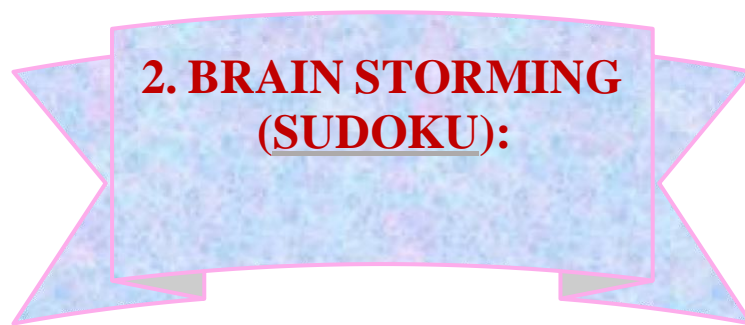
MATHEMATICS

GENERAL INSTRUCTIONS:

1)   Do all the questions inA4 Sheets or colored sheets. Place them in a folder. These can be used as Multiple Assessment/Portfolio.
2)   Please revise all the work done till now.

1. MINDMAP: *let's make learning easy!*

A mind map is a visual representation of your own notes. It is easier to remember a good visual representation than a long text.

Prepare a mind map of chapter—2 Polynomials.

2. BRAIN STORMING (SUDOKU):

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	

3. LET'S RECALL (PRACTICE QUESTIONS):

Q1) Write 2 rational and 2 irrational numbers between 1.5 and 1.6.

Q2) Express each of the following decimals in P/Q form

i) $2.3\overline{6}$
ii) $0.3\overline{05}$

Q3) Simplify:

i) $6^{\frac{2}{3}} \times 6^{\frac{2}{5}}$
ii) $81^{\frac{3}{4}}$
iii) $64^{\frac{-3}{2}}$

Q4)Classify the following numbers as rational or irrational

   i. √196
   ii. 9√2
   iii. 0.5918

Q.5 If y-coordinate of a point is zero, then where will this point lie in the coordinate plane?

Q.6 In which quadrant(s), abscissa of a point is negative?

Q.7 Find the point whose ordinate is -3 and which lies on y-axis.

Q.8 The point in which abscissa and ordinate have different signs will lie in which quadrant(s)?

Q.9 Find the perpendicular distance of the point P (5, 7) from the y-axis.

Q.10 Write the coordinates of a point on x-axis at a distance of 6 units from the origin in the positive direction of   x-axis and then justify your answer.
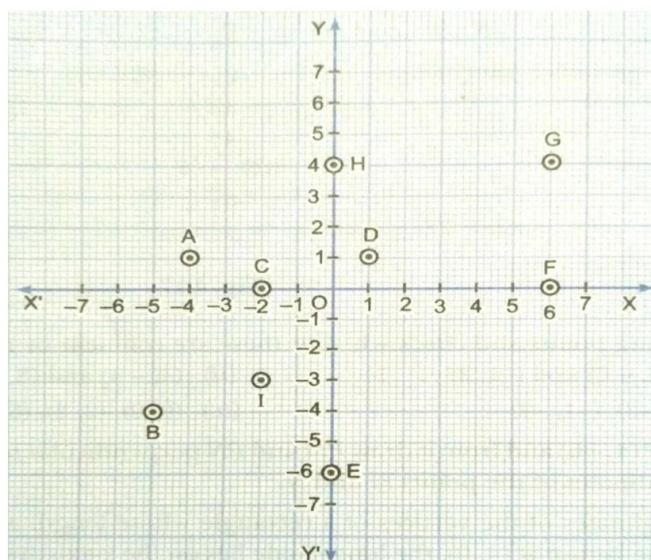
Q.11 If the coordinates of two points are P (-2, 3) and Q (-3, 5), then find (abscissa of P) – (abscissa of Q).

Q.12 Find the coordinates of the point

 i. which lies on both x and y-axis.

 ii. whose abscissa is 5 and lies on x-axis.

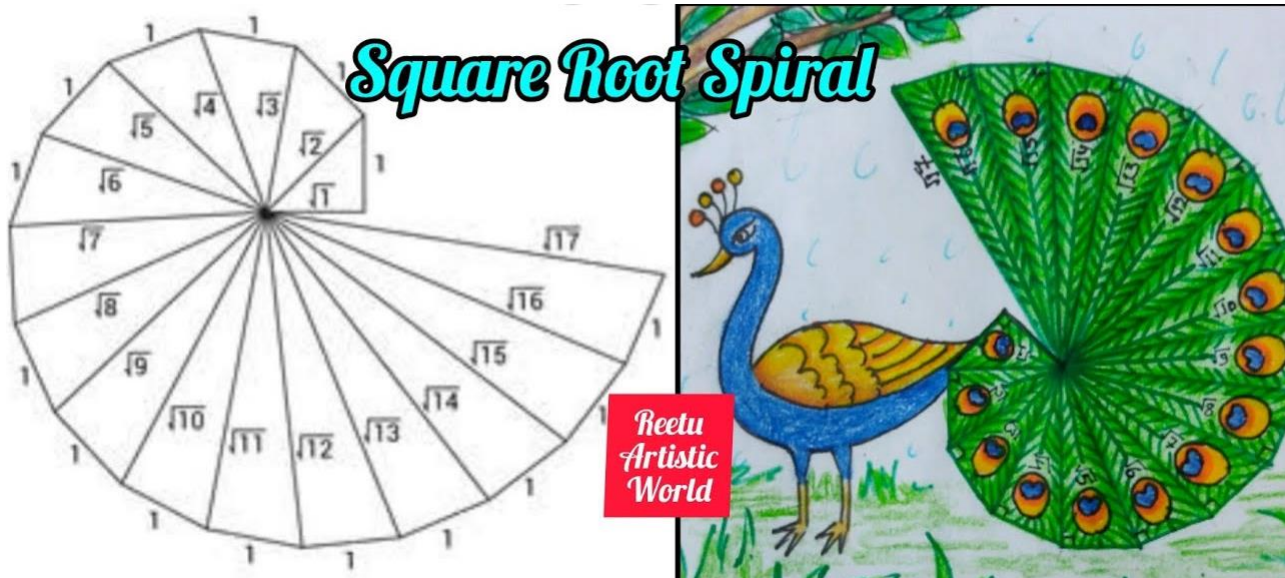 iii. whose ordinate is -4 and lies on y-axis

Q.13 From the given figure, write

 a) the coordinates of the points B and F.

 b) the point identified by the coordinates (1, 1)

 c) the abscissa of the points D and H.

 d) the ordinates of the points A and C.

 e) the quadrant in which points B and I lie.

 f) the perpendicular distance of the point G from the x-axis.

 g) the perpendicular distance of the point I from the y-axis.

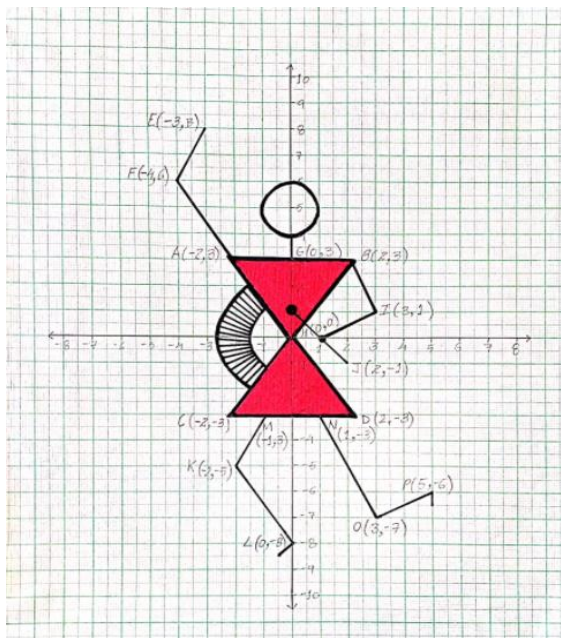 h) the point whose perpendicular distance from y-axis is 2 units

(A) SQUARE ROOT SPIRAL ACTIVITY
Using your own creativity draw an interesting fig to show square root spiral. (example is shown)

(B) COORDINATE GEOMETRY ACTIVITY

Plot coordinates(points) in a cartesian plane.
You are free to select coordinates. Using these coordinates make a drawing that reflects
Your creative skills.(A fig for reference is shown above.)
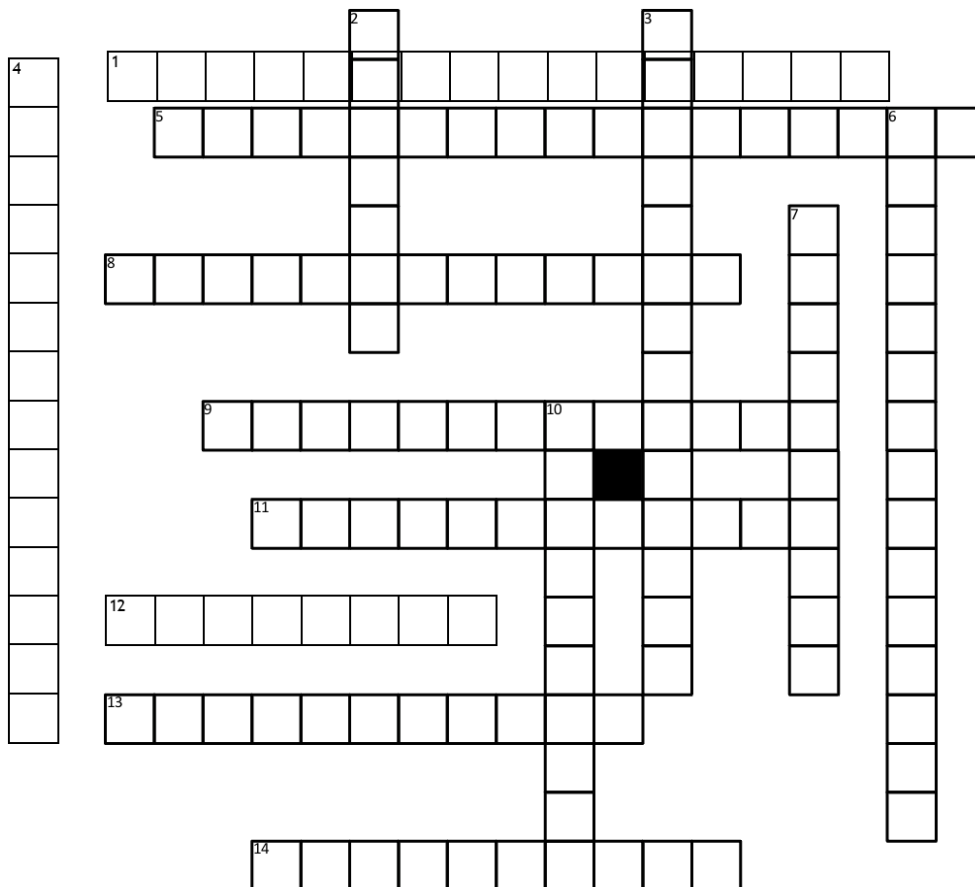
C) CROSSWORD ACTIVITY

Across

1. a decimal fraction in which a figure or group of figures is repeated indefinitely, as in 0.666… or as in 1.851851851….

5. any real number that cannot be expressed as the exact ratio of two integers, e.g. $\sqrt{2}$ and π

8. terminating decimal

9. 4 times 4=16

11. a number without fractions; an integer

12. alter (a number) to one less exact but more convenient for calculations

13. a number that is either rational or irrational rather than imaginary.

14. shorten (something) by cutting off the top or the end

Down

2. a whole number; a number that is not a fraction.

3. Imaginary numbers

4. a number without fractions; an integer.

6. a whole number or

the quotient of any whole numbers, excluding zero as a denominator

7. Numbers, symbols and operators (such as + and ×) grouped together that show the value of something.

10.a number that produces a specified quantity when multiplied by itself: "7 is a square root of 49

SCIENCE

BIOLOGY(Portfolio work)

Make a MIND MAP /CONCEPT MAP on any topic from the chapter "FUNDAMENTAL UNIT OF LIFE"
(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 keywords as they aid in enhancing your memory and retention.
For support, you may use the 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 center 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
- An Image is worth a thousand words
- It stimulates your imagination
- It is more interesting
- It keeps you focused
- It helps you concentrate
3. Use Colours throughout
- Colours are exciting to the brain
- Colours add vibrancy and life to your Mind Map
- Colours add energy to your creative thinking
4. Connect Main Branches to the central image
- Connect second and third-level branches
- The brain works by association
- The brain likes to link things together
- Linking the branches creates a structure
5. Make your lines curved: Straight lines are boring. Curved branches are attractive
6. Use One Key Word per line as single Key Words give your Mind Map more power and flexibility
- Each word or image creates its own associations and connections
- Each Key Word is able to spark off new ideas and thoughts
- Phrases dampen this triggering effect
7. Use Images (wherever possible)
- Each image is worth a thousand words
- 10 images will give you 10 000 words!
Source: usingmindmaps.com
Please note : These are just guidelines ,you may be creative in your presentation!!

CHEMISTRY
Do the following in chemistry notebook.
1. Why do we see water droplets on the outer surface of a glass containing ice cold water?
2. Convert the following temperature to the Kelvin scale (a) 25°C (b) 373°C.
3. List two properties that liquids have in common with solids.
4. . List two properties that liquids have in common with gases.

5. What will happen to the melting point temperature of ice if some common salt is added to it? Justify your answer.
6. How will you show that air has maximum compressibility? 31. Why cooling effect of ice at 00 is more effective than the same amount of water at 0 0C.
7. Give reason: doctor's advice to put strips of wet cloth on the forehead of the person having a high temperature
8. . Define the term (a) Latent heat of fusion (b) Latent heat of vaporization
9. State the effect of (i) surface area (ii) the nature of the liquid on the rate of evaporation.
10. . Liquids generally have lower density as compared to solids. But you must have observed that ice floats on water. Why?
11. What is the physical state of water at 250°C, 100°C, and 0°C?]
12. Give reasons: a. A sponge can be pressed easily; still it is called a solid. b. Water vapours have more energy than water at the same temperature.
13. What are intermolecular forces? How are these related to the three states of matter?
14. Is it possible to liquefy atmospheric gases? If yes, suggest a method.
15. a) what is meant by evaporation? What are the factors on which the rate of Evaporation depends? b) How does evaporation cause cooling?
16. State the properties of all three states of matter in respect of their shape, density, compressibility, force of attraction, and rigidity.
17. . Define: Melting point, Freezing point & Boiling point

PHYSICS

Instructions:
Complete the given work in a graph notebook

A) During your summer break record the observations **of any 5 trips** (market , a friends's place etc.) Odometer in a car shows distance travelled and speedometer shows the speed at any given time.Record the data in the following format in a graph notebook and plot the **distance time graph and speed time graph on it.**

Odometre Reading	Time
	1 min or 10 min if it's a long trip
	2 min
	3 min
	4 min
	5 min

For speed time graph

Speedometer Reading	Time
	1 min or 10 min if it's a long trip
	2 min
	3 min
	4 min

Social Science Project Document.

WORK PLAN 1

Social Science Project Document.

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. Classification of forest – type
2. Classification during colonial regime of forest
3. Wildlife of forest – habitat – endangered species
4. Threat to forest, methods adopted for conservation of flora and fauna by government and local communities.
5. Rebellion in the forest during colonial rule.
6. Scientific forestry, commercial forestry
7. Impact of colonial rule on forest and tribals.

1 group will have 5-6 slides in which compiler have to prepare an objective and outcome of the ppt.
Students can work on different aspects like -
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 every student on – Disaster Management
Topics to be covered:
● Earthquake
● Flood
● Tsunami
● Drought
● Cyclone
● Fire
● Terrorism
● Industrial disaster
● First aid: I) animal bite ii) burn and heatstroke iii)

Compulsory content in the project is:
1. Content /index
2. Learning objective
3. Introduction to the disaster
4. Ways to manage I) before ii) during iii) after
5. Case study
6. Conclusion – innovative ideas generated in the process
7. Bibliography
8. Questionnaire is a must

FOOD PRODUCTION

Make a practical file and create and attach the following topics in it-

i) Make a collage of the various fields in the hospitality sector.
ii) Make a presentation of the various departments of the hotel industry. You can use flow charts and mind maps along with colourful pictures to show the various departments.
iii) Make a presentation on the jobs offered by each allied area of the hotel industry

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.

MEDIA

Q1. What are the three most prominent factors that contribute to building confidence are?
Q2. Mention any three attitudes of self-confident people.
Q3. What is SWOT? How is it useful?
Q4. Mention any three steps we can take to organize our self.
Q5. How does the 'Opportunity' part of SWOT analysis help in developing self-confidence?
Q6. What is the importance of experience in building self-confidence?
Q7. Lack of self-confidence puts one in a vicious cycle. Comment and support your answer with an example.
Q8. What role does parental attitude play in building one's self-confidence.
Q9. Draw a contrast between attitudes of people with low and high self-confidence.
Q10. Explain different types of communication.

DATA SCIENCE

I.   Collect data of 50 Motor vehicles passing by your house. You can record the number of wheels, the color of the vehicle and try to present the data as a dot plot. Find the color of the vehicle, which is most common, and the least common vehicle has how many wheels.
II.   Write a paragraph on how data and analytics help in:
   • Fighting crimes
   • News and information
III.   Think of five positive and negative impacts of data footprints on social media and write them in your notebook.
IV.   Enlist 10 common computer viruses and write about them.
V.   Make a PowerPoint presentation with each of the following points on different slides put appropriate pictures and make it attractive
   1. We are surrounded by data. Every computer, every mobile device, every camera generates immense amount of data which greatly affects our daily lives.
   2. This volume of data when properly analyzed becomes the basis of many innovations, technology advancements and actionable insights.
   3. Analysis of data leads to creation of information, knowledge and wisdom.

4. Healthcare, online shopping, travel, education, online shows are some of the ways data influences our daily lives
5. We create enormous amount of data footprints by using different online platforms
6. There could be many ways data can be lost. So it is important to always keep a data recovery plan.

INFORMATION TECHNOLOGY

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.

INTRODUCTION TO FINANCIAL MARKETS

1. Revise Chapters 1, 2 and 3

2. Make an innovative Power Point Presentation on Evolution of Money across the World (Maximum 15 slides)

Holiday Assignment of Art-Art Education

Art: Alpana painting
Clay modeling: Mosaic tray

VOCAL MUSIC

Instructions:
1. In your music notebook write down all these:
   - Alankaars 1 to 10
   - Bhajan- payoji maine guru charno mein vishraam
   - Taal- Dadra, kehrwa, teen taal, rupak
   - Prayers- tu hee ram hai tu Rahim hai, tu pyaar ka saagar
   - Patriotic Song- nij rashtra ke shareer ke shringaar ke liye
   - Songs- saare jahan se accha, hum honge kamyaab
   - School prayer- I would be true
   - School song- Oh come let's sing of MGD
   - Folk song- any one 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.

Practice the following

1. सा रे ग म प ध नी सां
   सां नी ध प म ग रे स

2. सासा, रेरे, गग, मम, पप, धध नीनी
   सांसां

सांसां,नीनी, धध, पप, मम, गग, रेरे, सासा

3. सासासा, रेरेरे, गगग, ममम, पपप, धधध, नीनीनी, सांसांसां
सां

सांसांसां, नीनीनी, धधध, पपप, ममम गगग, रेरेरे, सासासा

4. सासासासा, रेरेरेरे , गगगग, ममम पपपप, धधधध, नीनीनीनी, सांसांसांसां

सांसांसांसां, नीनीनीनी, धधधध, पपपप, ममम, गगगग, रेरेरेरे, सासासासा

5. सारे, साग, साम, साप, साध, सानी सासां

सांसा, सांनी, सांध, सांप, सांम, सांग, सांरे, सांस

6. सारे, रेग, गम, मप, पध, धनी, नीसां

सांनी, निध, धप, पम, मग, गरे, रेसा

7. सरेगा, रेगम, गमप, मपधा, पधनी धनिसां

सांनिध, निधप, धपम, पमग, मगरे, गरेसा

8. सरेसरेग, रेगरेगम, गमगमप, मपमपध, पधपधनी, धनीधनीसां

सांनीसांनीध, निधनीधप, धपधपम, पमपमाग, मगमगरे, गरेगरेसा

9. सरेगम, रेगमप, गमपध, मपधानी, पधनीसां

सांनीधप, नीधपम, धपमग, पमगरे, मगरेसा

10. सरेग सारेगम, रेगम रेगमप, गमप गमपध, मपध मपधनी, पधनी पधनीसां

सांनीध सांनीधप, नीधप निधपम, धपम धपमग, पमग पमगरे, मगरे मगरेसा

11. सरेगग, रेगमम, गमपप, मपधध, पधनीनी, धनीसांसां

सांनीधध, नीधपप, धपमम, पमगग, मगरेरे, गरेसासा

12. सरेसरेसरेगग, रेगरेगरेगमम, गमगमगमगमपप, मपमपमपमपधध, पधपधपधपधनीनी, धनीधनीधनीसांसां

सांनीसानीसानीधध, नीधनीधनीधपप,
धपधपधपमम, पमपमपमगग, मगमगमगमगरेरे, गरेगरेगरेसासा

13. सरेसाग, रेगरेमा, गमगप, मपमध, पधपनी, धनीधसां

सांनीसाध, नीधनीप, धपधम, पमपग,
मगमरे, गरेगस

14. सारेगगगरेसा, रेगममगरे, गमपपपमग, मपधधधपम, पधनीनीनीधप, धनीनीसांसांसांनीध

धनीनीसांसांसांनीध, पधनीनीनीधप, मपधधधपम, गमपपपमग, रेगममगरे,
सारेगगगरेसा

15. सरेगमप, रेगमपध, गमपधनी, मपधनीसां

सांनीधपम, नीधपमग, धपमगरे, पमगरेसा 1