

BLM ACADEMY SR. SEC. SCHOOL
SESSION 2020-21



SUMMER HOLIDAY HOMEWORK
CLASS: XII Science

Dear Parents

Summer holidays are about to start.

- It's time for fun and frolic for the children. While fun is essential for all ages of students, but it's vital to indulge in constructive activities & fruitful work as their time is of crucial importance. It paves the path towards a bright future as it boosts the progressive learning graph. Free playtime should alternate with structured games-this cultivates sportsmanship.
- Assign a permanent workplace and work time. It brings in a system and discipline into the child's life.
- Emphasis on good manners, healthy habits and respect for elders.
- Never compare or insult them as it undermines their confidence.

We are giving an integrated art assignment for the vacation this time. We have tried our level best to make the work enjoyable, keeping in mind the students' interest and enhancing creativity.

Wishing all of you a delightful and fun-packed summer break!

Best wishes

Mrs Gayatri Kanwar

Principal



HOLIDAY HOMEWORK ARE BASED ON ART INTEGRATED PROJECTS

Instructions: You have to do Holiday Homework in Scrapbook or in A4 sheets or Project file. Please note that these assignments will be evaluated for subject enrichment of Term 1. Every Assignment carries 10 marks.

THEME: ECONOMIC CRISIS

CHEMISTRY :

Topic : Chemical Race with Economic Crises

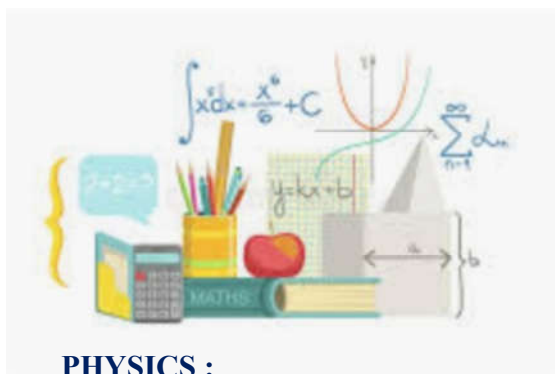
Activity- Classification of Medicines/Drugs
used in daily life with there upgradation,
and environmental challenges.



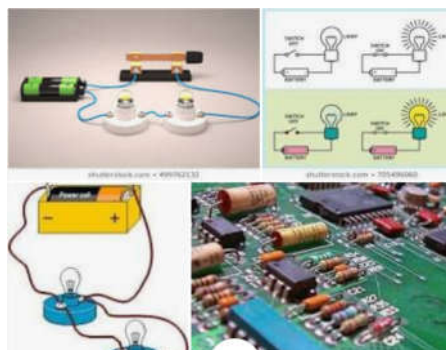
Step 1 - What is the objective/Aim.

Step 2- Represent one method by experiment or procedure (by drawing arts/sketch)

Step 3 - Write the limitations and success of experimental observation.



PHYSICS :



Topic : Visionary Physics Innovation

Activity-1) Qualitative physics is concerned with representing and reasoning about the physical world. The goal of qualitative physics is to capture both the common- sense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists.

Activity- 2) Quantitative data can be counted, measured, and expressed using numbers. Qualitative data is descriptive and conceptual. Qualitative data can be categorized based on traits and characteristics. Now that we got the differences out of the way, let's dive into each type of data using real-world examples.

Step 1- what is the objective/Aim.

Step 2- Represent one method by experiment or procedure (by drawing arts/sketch)

Step 3- Write the limitations and success of experimental observation .



BIOLOGY :

Topic : Biotechnology Tools

Activity- 1) To diagnosis Covid-19 virus and developing vaccine against it. Test kit corona virus IGM/IGG Rapid test rkit, RT-PCR isothermal nucleic acid applications etc.

Activity- 2) Vaccination development, procedure, trial and working mechanism.

Step 1- what is the objective/Aim.

Step 2- Represent one method by experiment or procedure (by drawing arts/sketch)

Step 3- Write the limitations and success of experimental observation .

ENGLISH :

The whole world is facing economic crisis. Write an article in 150-200 words on “Economic Crisis”.

Hints: Stock market crashed

Many lost jobs



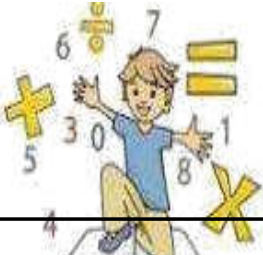

Industries closed

First Great Depression in 1930

Corona Virus worst crisis



HOLIDAY HOMEWORK: Class XII
Summer Vacation, 2020-2021

SUBJECT :	MATHEMATICS
	
Work Specification : 	<ul style="list-style-type: none">❖ This file contain two parts –❖ PART A is based on practical use of data in daily life (application based)❖ PART B is based on a activity (related to Economic Crisis).
Materials Required : 	Text book, internet, maps, newspaper and various magazines

Part A

Give any Two applications of the following chapters in daily life.



1. Sets, Relations and Functions
2. Inverse Trigonometric Functions
3. Matrices
4. Determinants



MATHEMATICS

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Part B

Directions: For this project, you will explore the economic status of your country by a political survey through contacting peoples in different cities. Complete the task using the help of following steps.

Cities to be contacted	Method of contact		
	Telephone	Housecall	Letter
X	15000	500	10000
Y	25000	1000	35000
Z	35000	4000	25000

Method of contact	Cost per contact in Rs
Telephone	0.40
Housecall	0.90
Letter	0.50

Step 1: Form a 3×3 matrix and a 3×1 matrix out of the data given above.

Step 2: Find the cost of contacting peoples for the different cities by matrix multiplication.

Step 3: Observe the differences and the components involved in these calculations to answer certain questions.

Step 4: Answer the following on the basis of your observation in step three.

- Which city has the highest contacting expenditure and why?
- According to you which type of contacting method is economical?
- If there is an economic crisis which sector out of these three will generate more revenue?
- Form an economical example of your own to represent matrix multiplication?

Some Suggestions from teacher's desk:

Holiday is a time to explore the world beyond text books and mundane theories...there is a mathematician within you. Application of the concept so taught can be done in an enjoyable manner. Open your wings and explore the world unknown, unseen and undiscovered...all the best!



Happy
Holidays

OPTIONAL SUBJECTS :

PHYSICAL EDUCATION

Prepare a record file

Procedure for Asanas, Benefits and Contraindications for any two Asanas for each Lifestyle disease.

(According to syllabus)

Note- above project include in your practical examination

MUSIC :

MAKE A PRACTICAL FILE BASED ON FOLLOWING RAAGS AND TAALS

RAAGS

- [1] BHAIKAV
- [2] MALKAUNS
- [3] BAGESHREE
- [4] SHUDDHA SARANG

TAALS

- [1] JHAPTAAL
- [2] RUPAK
- [3] DHAMAAR
- [4] AARACHAR TAAL



PAINTING :

Theory : Unit 3 - Sculpture

1. Triumph of labour
2. Santhal family
3. Cries Unheard
4. Ganesha
5. Chaturmukhi



Practical Work :

1. Five 2D work
2. Five drawings (Objects)
3. Two still life
4. Two compositions



INFORMATICS PRACTICES

1. Revise the Unit: MySQL and SQL
2. Complete the given assignment in notebook.



COMPUTER SCIENCE

1. Go through the lectures/ Videos / PPT of chapter Functions in Python.
2. Learn and revise the topics.
3. Complete the given assignment in notebook.



Have a wonderful and joyous summer holidays with your loved ones. Utilize this time wisely. Make best use of this holiday season. Stay healthy and enjoy!

Shantanu Bishnoi
(Administrative Officer Senior Wing)

