

BLM ACADEMY SR. SEC. SCHOOL
SESSION 2020-21



SUMMER HOLIDAY HOMEWORK
CLASS: XI Science

Dear Parents

Summer holidays are about to start.

- It's time for fun n 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: FARMING CRISIS

PHYSICS:

Activity-Artificial light is used in greenhouses to increase productivity and quality of agricultural and ornamental plants. 2)Despite the awareness of the fact that light also plays important role in the life of fungi, but it's use is currently limited.

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

CHEMISTRY

Activity -New technique of farming is to be represent such as

1)Hydrogel,2) Organic Farming, 3)Vertical Farming.

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

Activity- Using Recombinant DNA technology tool creat:

1) Herbicide tolerant plant- Round up ready.

2) High photosynthesis yield.

3) Insect resistance plant -ex BT- Cotton.

4) Biofortification.





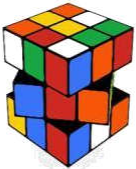
Step 1- what is the objective/Aim.

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HOLIDAY HOMEWORK: Class XI
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 Farming 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
2. Relation and Function
3. Trigonometric Functions



MATHEMATICS

designed by  freepik

Part B

Directions: For this project, you will explore the table given below representing change in production per decade of your country. Complete the task using the data provided in the table.

Crop group	Production (million tons)		
	1990-2000 (a)	2000 to 2010 (b)	2010 to 2020
Food grains	1.15	1.08	
Cereals	1.46	0.95	
Coarse cereals	-0.49	0.80	
Pulses	-2.30	3.36	
Oilseeds	-0.11	3.53	

Source: *Economic Survey (various issues), Ministry of Finance, Government of India.*

Step1: Form a function $f(x) = \left(\frac{b-a}{a}\right)x + a$ for each crop group.

Step 2: Find calculated production $f(x)$ for the decade 2010 to 2020 by taking x as b in the above formed function.

Step 3: Estimate the Actual production required according to population growth in two decades by the formula: Required production = $\left(\frac{\text{Current population}}{\text{Population in 1990}}\right)a$

Step 4: Observe the difference and express your views regarding the crisis.

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 

ENGLISH:

You are Raman/Ruchika. Write an article with the help of hints given below on the topic “Farming Crisis”.

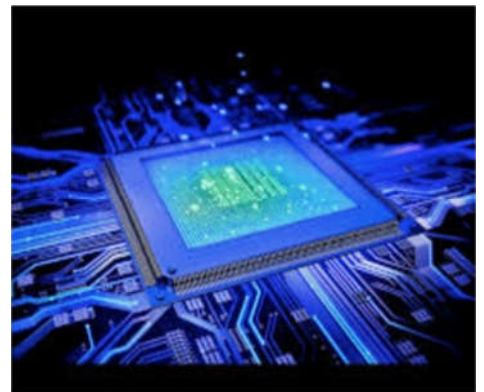
Hints: not new; goes back many years weather-induced factors response of government wages stagnated leads to farmers’ suicide

OPTIONAL SUBJECTS :

COMPUTER SCIENCE:

Chapter-Python Fundamental

Do the given assignment and worksheet in fair note book.



INFORMATICS PRACTICES:

Unit 1-Introduction to Computer System:

Watch Video and answer the following questions.

- Q1. What are System Software and Application Software?
- Q2. Give 2 -2 example of each.
- Q3. Differentiate between generic and specific purpose software.

Unit 4-MySql and Structures Query Language

Do the given worksheet.



PHYSICAL EDUCATION:

1. What is physical education and why it is necessary for students? Explain in brief.
2. There are various careers in physical education. Which career you want adopt and why?

3. Draw a proper flowchart mentioning Domestic and International competition in sports. (at least 4 sports)

4. Mention your views about Khelo India program. Discuss is it necessary for students?

5. Draw a proper chart of Modern Olympic Games held so far.

YEAR	VENUE	INTRODUCTION
		(i.e .Olympic Flame, Olympic Motto, Flag)

MUSIC(VOCALS AND INSTRUMENTAL) :

Compose a song on "Farming "

PAINTING :

Theory Paper - Graphics Print

- i. Whirlpool
- ii. Children
- iii. Devi
- iv. Of Walls
- v. Man, Woman and Tree



Practical Paper

- i. Five objects drawing
- ii. Five 2D

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)

