AMENITY PUBLIC SCHOOL
HOLIDAY HOMEWORK
CLASS – X (2024 – 25)

HERE'S TO A SUMMER VACATION THAT'S A TIME FOR MAKING MEMORIES, TRYING NEW THINGS, AND EMBRACING NEW EXPERIENCES THAT ENRICH YOUR LIFE.

Dear Parents and Students,

*Summer vacation is here! A time to unwind and engage in various scholastic and co-scholastic activities. Holidays are also an opportunity to learn new things and explore fresh ideas. This summer, we embark on a fascinating journey through **the interdisciplinary project**. Interdisciplinary projects are learning activities that involve multiple subjects and skills, such as Mathematics, Science, Social Science, Art, and Communication. They can help students develop deeper understanding, critical thinking, creativity, and collaboration skills. This would encourage in-depth learning, strengthen concepts and prepare ground for improved academic output. These projects will be assessed as Subject Enrichment Activity. As parents, your support is crucial. Please motivate your children to complete the assigned work to the best of their ability. Your encouragement can significantly make a huge difference to the ultimate learning outcomes of these projects.*

The students are encouraged to spend quality time by encouraging themselves in the following tasks:

- *Go out for morning walk and spend time to observe nature.*
- *Watch your mom working in the kitchen and help her to keep the house clean.*
- *Visit your grandparents, spend time with them.*
- *Plant a sapling and watch it grow.*
- *Play any sport with your parents which they played during their school days.*
- *Devote some time for reading during the summer break.*

Points to Remember:

- *The summer vacation is from **27th May to 30th June 2024.***
- *The school will reopen on **Monday 1st July 2024.***
- *The last day for the submission of the homework is **Friday 5th July 2024.***
- *Kindly adhere to the given timeline.*
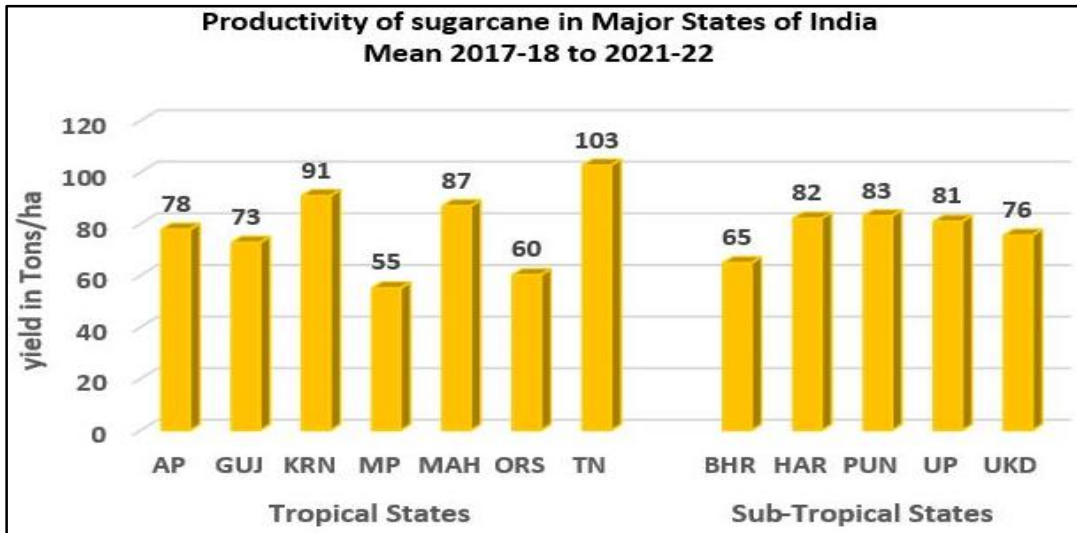
➢ Topic of Integrated Project - Crop Production

➢ ENGLISH LANGUAGE AND LITERATURE (184)

1. **Journey of a Mango**
   Using **infographics, describe** the life cycle of a mango in 100-120 words.

2. **Analysis of Sugarcane Productivity in Various States of India**
   Study the bar graph given below. Analyse in a **paragraph** of 100-120 words, the productivity of sugarcane in various states of India over five years.

3. **Motivational Talk**
   Imagine you are the seed of a staple crop. You are invited to attend Pantnagar Agriculture University for a seminar. Various seeds from all over India have presented their views. Now it is your turn. Draft a motivational speech that is inspired by your life experiences (autobiography of a seed). in 100-120 words. Include pictures to make it presentable. Also, prepare the speech for **JAM (Speaking Assessment)**.

4. **Dialogue between Baby Seed and Grandpa Tree**
   Grandpa's bedtime stories are a cherished tradition for the Baby Seed. Grandpa Tree promised to share the story of his struggles and ultimate success during the long holidays. Develop a **dialogue** between the Baby Seed and Grandpa Tree that captures this narrative. Include graphics/pictures.

➢ HINDI (085)

(1) निम्न संकेत बिंदु को ध्यान में रखते हुए भारतीय किसान पर एक अनुच्छेद लिखिए।

   (क) प्रस्तावना

   (ख) किसानों का देश

   (ग) समस्या

   (घ) हालात में सुधार के सुझाव

(2) झूमती फसलों को देखकर आपके मन में उठने वाले विचारों को लेखबद्ध या कविताबद्ध कीजिए।

➢ MATHEMATICS (041)

1. How is Mathematics used in agriculture and why is it important for farmers to know about it?

2. The following data shows the agricultural production in India during a certain year.

Foodgrain	Rice	Wheat		Coarse cereals	Pulses
Production (in millions of tonnes)	57	76		38	19

Draw a pie chart to represent the above date.

3. Prepare a working model based on the concept mentioned below:
    Group A: Polynomial
    Group B: Trigonometry Park
    Group C: Application of Trigonometry
    Group D: Basic Proportionality Theorem (B P T)

➢ SCIENCE (086)

Sustainable agriculture is an approach to farming that focuses on producing food in a way that maintains the health of the environment, supports economic viability, and promotes social equity. Prepare a project report on the topic **" Green Acres: Transforming Agriculture for Sustainable World"** which aims to meet current food needs without compromising the ability of future generations to meet theirs.

Support your project report with the pictures. Compile the investigatory project according to the prescribed format:

- Introduction
- Objectives of sustainable agriculture
- Principles of sustainable agriculture
- Various sustainable agricultural practices
- Benefits of sustainable agriculture
- Impact of sustainable development on environment and farmers
- Various vegetables crops and fruits which face challenge due to global warming
- Challenges of sustainable agriculture
- Case studies
- Conclusion

➢ SOCIAL SCIENCE (087)

I. Select any two creative projects from the following:

1. On a political map of India, mark the types of soil present in India and list out the crops grown in particular states, also compare the crop growing pattern of North India to that of South India.

2. List out the steps involved in millet production and give a detailed description of the following:

- ❖ Tools used
- ❖ Soil type
- ❖ Method of farming
- ❖ Temperature, precipitation
- ❖ Chemicals used
- ❖ Irrigation required
- ❖ Season of Sowing and Harvesting
- ❖ States with the highest production

➢ INFORMATION TECHNOLOGY (402)

Database Creation:
Create a new database named Crop Production

Table Creation:
Write the SQL commands to create the following tables with specified Attributes

Table Name-Crops
Attributes-CropID, Name, Type, Season

Table Name - Farmers
Attributes-FarmerID, Name, Age INT, Gender

Table Name - Production
Attributes – Production ID, Year, Quantity, CeopType, CropName, CropPrice, ProductionArea

Insert data by doing research on the given table attributes.

Queries based on the above given tables-

- Retrieve all crops.

- Find all farmers.

- Get all production records for the year 2023.
- Find all crops that are of type 'Vegetable'.
- List all farmers above the age of 40.
- Get all production records sorted by CropPrice in descending order.
- Retrieve the names of all crops.
- Find all crops that are grown in the summer season.
- List the distinct types of crops.
- Get the names and ages of all farmers.
- Find all male farmers.
- List the farmers ordered by age in ascending order.
- Retrieve all production records for 'Corn'

GUIDELINES FOR HOLIDAY HOMEWORK

- Make your project more informative and creative including all the activities.
- All the activities should be done on A4 sheets. (white/ coloured)
- The homework of all the subjects will be compiled in a string file.
- Cover page, acknowledgement and index should be maintained for the project.
- Do your homework independently. Parents can act as guides and facilitators.

The work will be evaluated for all the subjects on the following parameters.

- Idea and Content
- Information
- Presentation
- Innovation
- Creativity