

CARMEL CONVENT SCHOOL

CLASS :IX AB



Dear Parents

Vacation is an excellent time to learn new skills. It is a welcome break for the children to enjoy and explore things in their own way and do some creative work. This is the time for them to be close to family & friends. Take them on walks, give them some responsible job in the family (like taking care of grandparents) to instill values, involve them in daily chores, arrange a short family trip, bring them emotionally around & give them chances to take small decisions, so that they work on their overall personalities too. Seeking your cooperation as always as teamwork is dream work. Here are some interesting and fun-filled assignments for the children to learn and keep them occupied during the holidays. These assignments have been designed in a way children know their best about themselves. We would appreciate if the children do these assignments on their own. Help and guidance may be given wherever required.

GENERAL INSTRUCTIONS:

- Holiday Homework must be done in a very neat and presentable manner.
- Homework will be assessed on the basis of, creativity, presentation and completion
- of all the questions & indexing of work.
- Avoid cutting and overwriting.
- Creativity and Originality of work will be appreciated.
- Read the instructions carefully under each Subject and submit it accordingly.

For ART INTEGRATED PROJECT,

(TITLE OF PROJECT : Rain Water Harvesting)

(ii) The cover of each Project file must comprise of–

a. School's name, b. CBSE Art integrated project c. Name of student: d. Class /Section:

(iii) The first page of the Project file - Index,

(iv) The Second page- Acknowledgment,

(v) The Third page –Certificate, followed by the main content pages of the Project

(vi) Bibliography

You will make separate files for each subject.

SUBMISSION OF HOLIDAY HOMEWORK

The last date of submission of the Homework is 19th July, 2024. Do all the Activities/Project work, as directed, the holiday homework is a part of internal assessment.



Art-Integrated Project: Rainwater Harvesting

Objective: To understand the importance of rainwater harvesting and create an awareness campaign through various art forms.

Task:

1. Research on the concept of rainwater harvesting - its definition, importance, methods, and benefits.
2. Create an informative poster or info graphic illustrating the process of rainwater harvesting and its advantages.
3. Write a short story or poem highlighting the need for water conservation and how rainwater harvesting can be a solution.
4. Compose and perform a street play or song conveying the message of water conservation through rainwater harvesting.

You can use various art forms like painting, drawing, collage making, photography, digital design, creative writing, and performing arts to complete this project.

Guidelines:

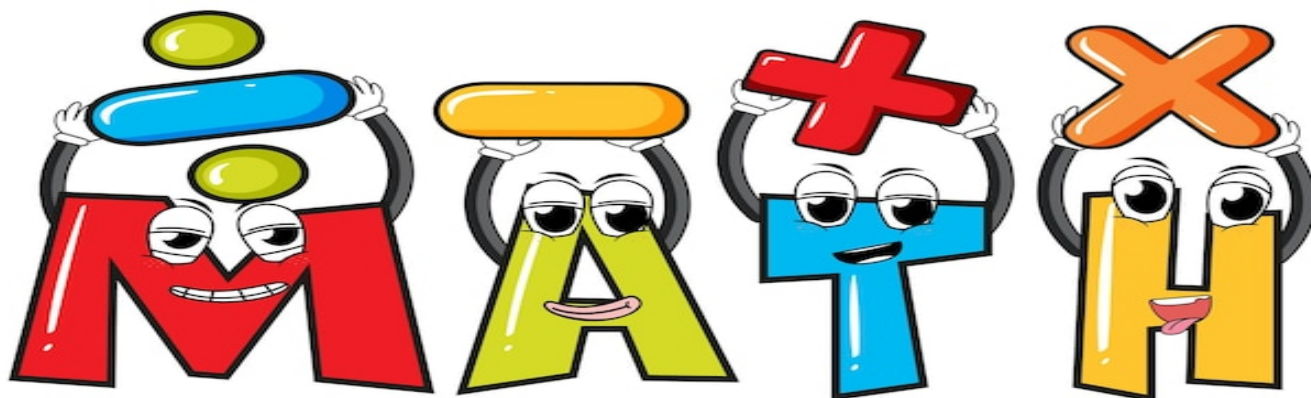
-The project will be evaluated based on content, creativity, presentation, and overall effectiveness creating awareness about rainwater harvesting.



THEME :- वर्षा जल संचयन (Rain water Harvesting)

1. जल ही जीवन है विषय पर 300 शब्दों में लेख लिखिए ।
2. जल संसाधन मंत्री, भारत सरकार को पत्र लिखकर जल के संरक्षण एवं देश की नदियों को जोड़ने के संबंध में सुझाव देते हुए पत्र लिखिए ।
3. प्रधानमंत्री नरेंद्र मोदी की गंगा प्रोजेक्ट पर अनुच्छेद लिखिए ।

नोट :- अपना प्रोजेक्ट एक रंगीन फाइल में जमा करें ।



- **1. Introduction**
- Define rainwater harvesting and its importance

Mathematical Concepts :

- Gather Data on Rainfall patterns in your area. Measure the dimensions of the catchment area. Calculate the surface area of the catchment (eg roof) where rainwater is collected.
- **Objective:** Explain the purpose of the project, highlighting the importance of Rain water harvesting and how mathematics can be used to understand and Rain Water harvesting.
- **2. Data Collection and Analysis**
- **Data Sources:** Use reliable sources such as natural or man-made catchment areas e.g. rooftop, compounds, rocky surface, hill slopes or artificially repaired impervious/semi-pervious land surface for Rain Harvesting Data.

Types of Data:

Data to be collected for designing RWH system, Catchment Data, Catchment Variety Meteorological Data

- **3. Graphical Representation**
Graphs and Charts: Create various graphs (line graphs, bar charts, pie charts) to represent Rainfall harvesting data of any five top cities.



1. Art Integration: Prepare a project on; Rain Harvesting techniques

How can we design artistic installations that visually represent the unique chemical properties of water in the diverse environments of Jammu & Kashmir and Gujarat, while also showcasing its importance for sustainable living and environmental conservation?

Rain water harvesting- collage.

Rainwater Quality Testing TDS (Total Dissolved Solids) meter.

Calculation.

Assessment Criteria >Creativity: 2 m>Artistic Technique: (e.g., cutting, glueing, drawing):

2 m>On-time submission

CHEMISTRY

Write the experiments in the practical file as instructed by the subject teacher.3. Do NCERT worksheets of chapter 1. Matter in our surroundings,

<https://drive.google.com/file/d/1Lb1HfNaaLygVyU6y5sLkGsvXE84xMEgR/view?usp=drivesdk>

4. Revise the PT-2 syllabus

PHYSICS

Project : Make a project on graphical representation of motion.

Page 1.Introduction

Page 2.Distance-time graph (Make separate graphs)

Page 3.Speed-time graph (Make separate graphs)

Page 3. How speed can be calculated from distance-time graph? Explain by choosing a suitable example.

Page 4. How acceleration and distance can be calculated from velocity-time graph ? Explain by choosing a suitable example.

Page 4. Bibliography

Worksheet

<https://docs.google.com/document/d/16rNUH1wBXZrXgAnAgc8tnOgHnmBypW7miV5o9NJp6B0/edit?usp=sharing>

Biology

1 To create a concept map illustrating the relationships between different cellular structures and their functions within a cell.

2 Compare and contrast prokaryotic and eukaryotic cells, highlighting their similarities and differences in structure and function.

3 .Write any specific organelle and research its structure, function, and importance to the cell.

4 The cell membrane is the most important organelle in a cell.Give reason to support your answer.

2. Prepare 10 questions on 'Rain water harvesting' and implement the Q/A session using Scratch/ Pictoblox Platform. Choose suitable sprite and apply an appropriate background while creating this project.
3. Read chapter 4 (Effective Communication) of Part A of Artificial Intelligence –Skill Course and prepare a power point presentation to demonstrate this topic.
4. Each child will demonstrate this topic in the class)



Here are the tasks you need to complete:

1. Practice regular yoga asanas such as Tree Pose, Tadasana, Triangle Pose, Cobra Pose, and Banana Pose. Also, include breathing exercises in your routine.
2. Draw or paste 5 pictures of yoga asanas and healthy food on an A4 sheet. Write 3 lines about each picture.
3. Choose and document one game from cricket, football, or kho kho. Include the rules and regulations in a separate file, for Physical Health Education (PHE).
