

The Journey to Organic Farming

A PROJECT BY STUDENTS OF GRADE-5

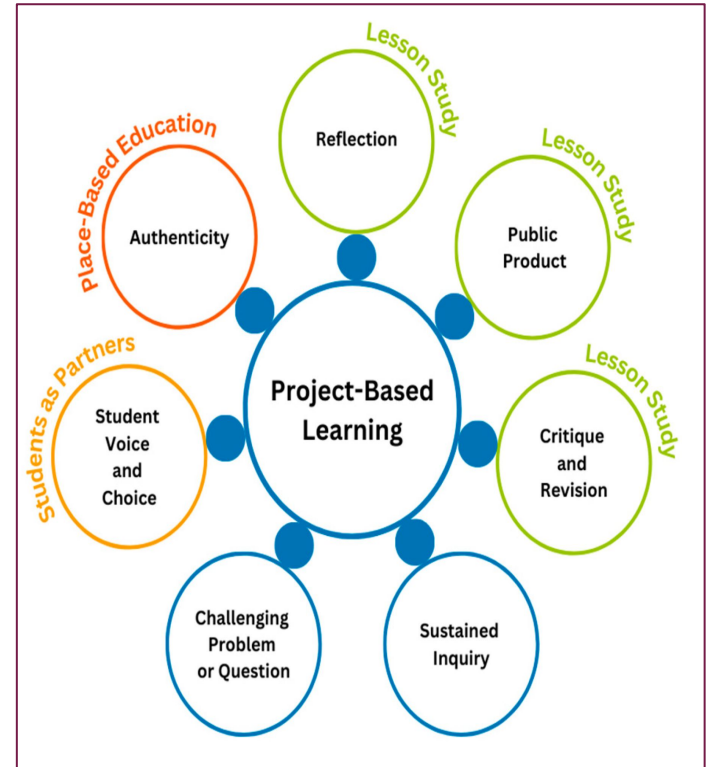


**BHAGYALAXMI SARLA GURUSAHANI MEMORIAL (BSGM) SCHOOL
AND JUNIOR COLLEGE (SCIENCE),
GURUSAHANI NAGAR, N-4, CIDCO,
AURANGABAD.**



Project Based Learning

- Project-Based Learning (PBL) is a teaching method where students learn by working on real-world projects.
- They apply their knowledge and skills to create something meaningful, making learning more engaging and practical.



We, the students of Class 5 at BSGM School, have worked on a project to explore the world of organic farming. Through this project, we learnt about its benefits and how it helps the environment. We will also share how we integrated different subjects like Science, Math, Art, Sports and Languages in our project. With the support of our teachers and teamwork, this journey has been both fun and educational.



Welcome to the culmination event of our Project

‘The Journey to Organic Farming’



Welcome



Project Launch

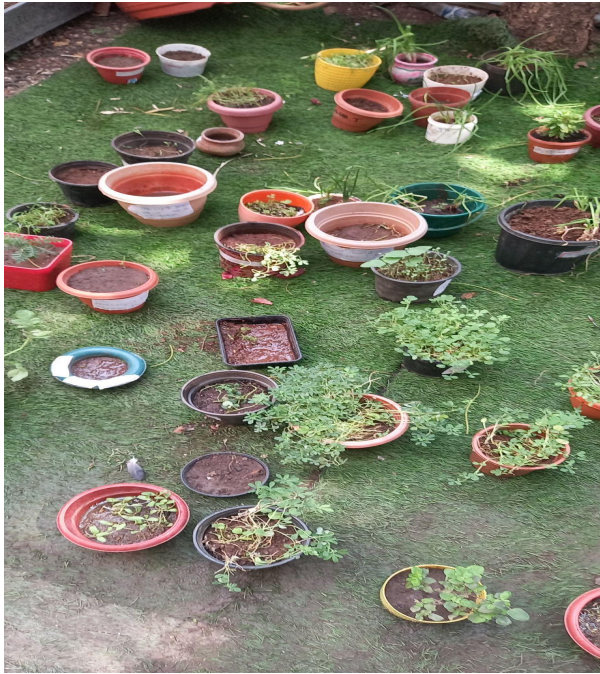


Organic Farming at School



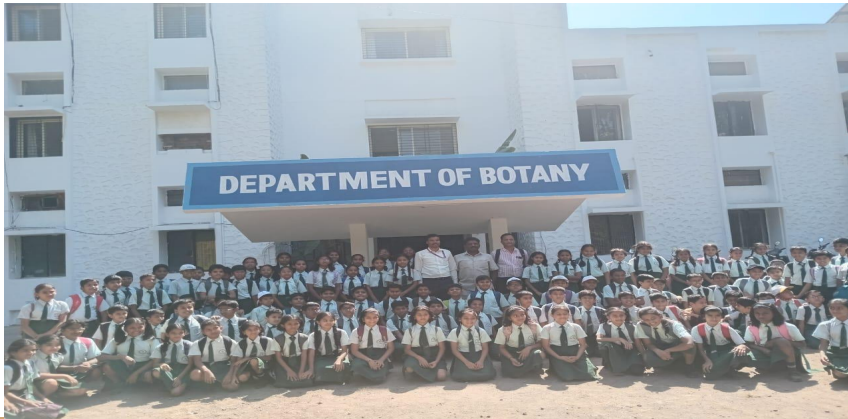


Our Home Grown Plants



Visit to Botanical Garden

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.



Field Visit Observation Sheet

BHAGYALAXMI SARLA GURUSAHANI MEMORIAL SCHOOL
BSGM SCHOOL

Botanical Garden Field Visit - Observation Sheet

Student Name: Sambodhee Anke Class: 5th Section: Amazon

Basic Information

- Name of the Botanical Garden: B.A.M University
- Location: Dr. B.A.M University
- Date & Time of Visit: 13th Feb 2025
- Weather Conditions: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Windy

Seed Germination Observations

- Did you see any seeds being planted or starting to grow? ☒ Yes ☐ No
If you visualise any seed growing, what kind of seed do you see? (e.g. flower, vegetable, tree) vegetable
- What does a tiny seed look like? (small, round, colour) small, round, brown, white etc.
- If the seed started to grow, what would happen? (eg: it would get bigger, turn green, grow leaves) grow leaves
- Did you notice any roots or tiny leaves coming out of the seed? ☒ Yes ☐ No
If yes, where did you see them? In our school we made our own garden.
- Do you think the seed needs something special to grow? What might that be? Yes, it needs fertile soil and organic compost and manure.

Vegetables Grown in Winter

- Which vegetables do you see that grow in the winter season?
(Look for vegetables like carrots, spinach, peas, fenugreek, tomato, potato, onion etc.) Fenugreek, spinach, tomato.
- Why do you think these vegetables grow well in winter?
Yes, because they are seasonal vegetables

Soil Type Observations

- What type of soil did you see in the garden? ☐ Sandy ☒ Loamy ☐ Clayey
Describe the soil texture and appearance: The soil texture and appearance was hard.

BHAGYALAXMI SARLA GURUSAHANI MEMORIAL SCHOOL
BSGM SCHOOL

Botanical Garden Field Visit - Observation Sheet

Student Name: Sonakshi Madan Class: V Section: Mississippi

Basic Information

- Name of the Botanical Garden: B.A.M University
- Location: University Area
- Date & Time of Visit: 11:00 & 13/2/25
- Weather Conditions: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Windy

Seed Germination Observations

- Did you see any seeds being planted or starting to grow? ☒ Yes ☐ No
If you visualise any seed growing, what kind of seed do you see? (e.g. flower, vegetable, tree) Vegetable
- What does a tiny seed look like? (small, round, colour) Small, round, yellow
- If the seed started to grow, what would happen? (eg: it would get bigger, turn green, grow leaves) grow leaves
- Did you notice any roots or tiny leaves coming out of the seed? ☒ Yes ☐ No
If yes, where did you see them? In our school
- Do you think the seed needs something special to grow? What might that be?
Organic manure, sunlight, water.

Vegetables Grown in Winter

- Which vegetables do you see that grow in the winter season?
(Look for vegetables like carrots, spinach, peas, fenugreek, tomato, potato, onion etc.) Fenugreek, spinach, potato
- Why do you think these vegetables grow well in winter?
They get proper temperature to grow well

Soil Type Observations

- What type of soil did you see in the garden? ☐ Sandy ☒ Loamy ☐ Clayey
Describe the soil texture and appearance: The soil was loamy and it was in Brown colour.

Expert Talk



Reports of the Field Visit

Page No. 5 Date: 1/12/25

Field Trip Report

On 13th Feb, 2025, Thursday, we the students of Std. 5th went for a field visit to P.B.M. University, Botany Dept and Botanical garden. We reached there at 11:30 am and immediately went to seminar hall where a site taught us about the plant life. After that we went in the botanical garden. Botanical garden was a vast collection of trees and plants. We saw many trees and plants which were labelled with their botanical names. The botany Dept. had a very good information about every single thing about the plant. Our teachers also told us the common names and the botanical names of the trees and plants. We also went to herbarium where the herbarium sheets had some dried plants. We also got a observation sheet which was all about our observation. Then we also did our lunch after some time. Our teacher also explained us the observation sheet so we got some nice ideas. The site also asked us some questions and everyone answered them properly. And he also cleared our some doubts with nice examples. He told us about the plants so nicely he also taught us some unique concepts, which were out of our syllabus. And then we went in our bus and our journey started back to our school. And we finally reached our school. There also our teachers discussed some things with us about plant observation. Our field visit was a fun and it was such a wonderful experience. We enjoyed our field visit a lot.

Name:- Anushka Ramani Jha

Std:- 5th V Div:- Amazon Roll no:- 38

Page No. 5 Date: 1/12/25

Field Visit Report

Location:- Botanical garden, Bhutani Dept, Dr. B.A.M University, K.R. Sambhajinagar

Date:- 13 February

Our field visit went to Botanical garden of Bhutani Dept in Dr. B.A.M University. Our guide was Sushil sir. He took us to seminar hall and gave us information about trees and plants also they gave answers to our questions in very simple language. We clear our all doubts there regarding to lifecycle of plants. We were very excited to see the plants in the garden.

After that Sushil sir took us to all of us to their Botanical garden and show many more different types of plants which we only learn in school.

We were very very impressed to visit Botanical garden. It gave them then gift too this because they gave us this much knowledge about plants.

We thank to school for taking us to this much nice and knowledge place.

Name:- Nishu Bhutola

Roll no:- 08

Std:- 5th Amazon

Page No. 5 Date: 17/12/25

Field trip report

We went botanical garden we sat in seminar hall and Sushil sir taught us about trees, plants and how to understand weather the fruit or food is organic or non-organic. We saw Jondal (chandan) wood in the garden and then we have food. After eating we went to Herbarium garden there we saw some plants and grass we explore two gardens. They said "when you will come next time we will explore the third garden too" and it was just fun. I loved that place very much and I wish to go one's more to visit or explore third garden. I was happy to explore this Botanical garden.

Name:- Ashi vikendra nagari

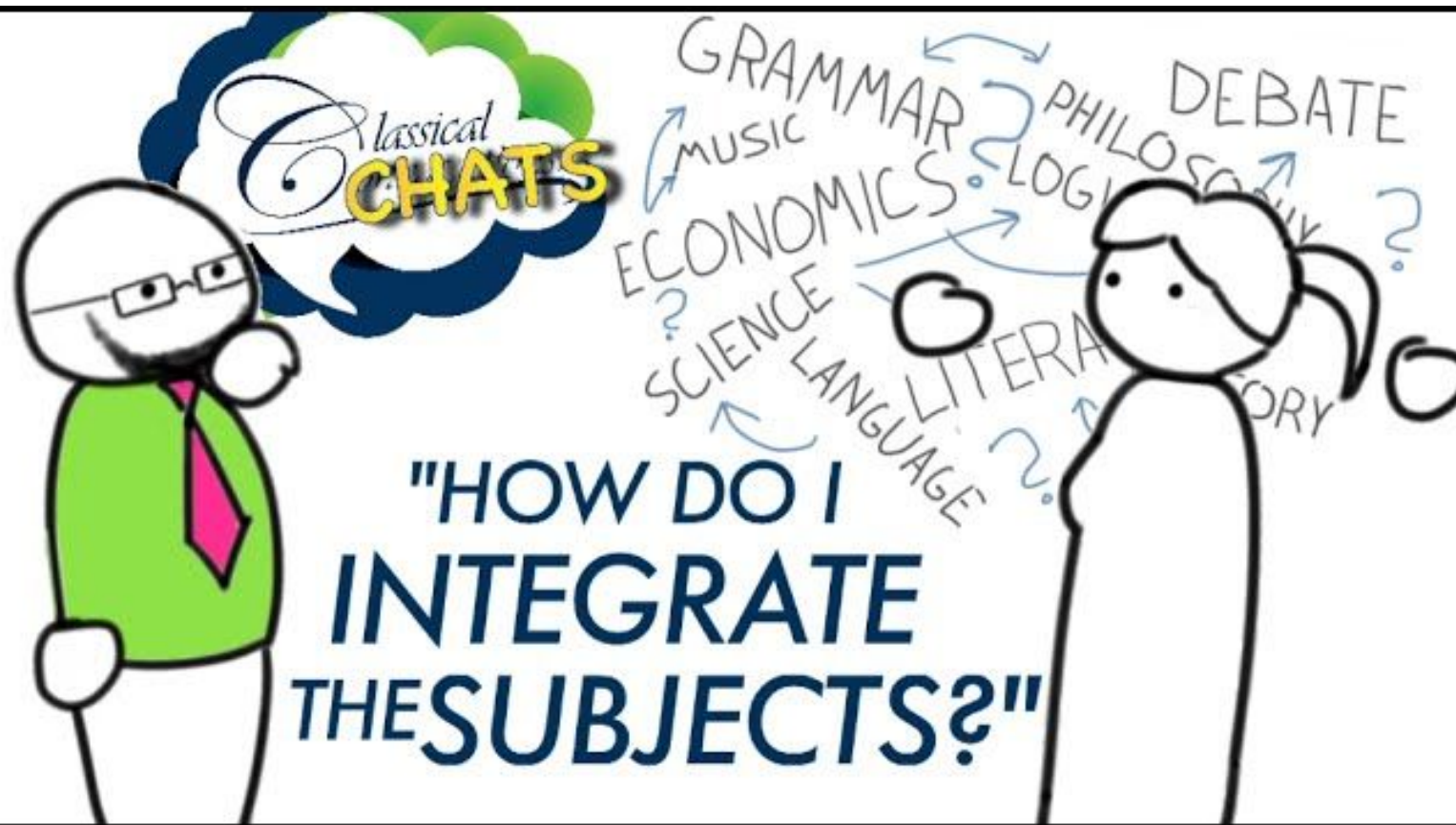
STD:- V

Div:- Amazon

Roll no:- 28

Date:- 17/12/25 Day:- Monday

School:- Bhagyalaxmi Sarla Jyotsnani memorial school.



ENGLISH LITERATURE

An Unforgettable Day

We have explored a beautiful English lesson and connected it to real life through our project on Organic Farming.



ENGLISH LITERATURE

- The story teaches us how small experiences can change our way of thinking.
- We also had an unforgettable experience when we learned about food and health!
- What we eat is very important!



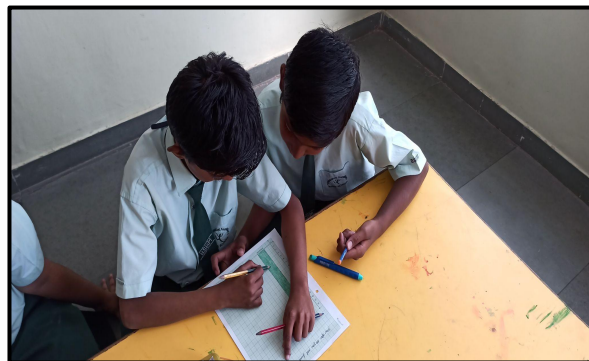
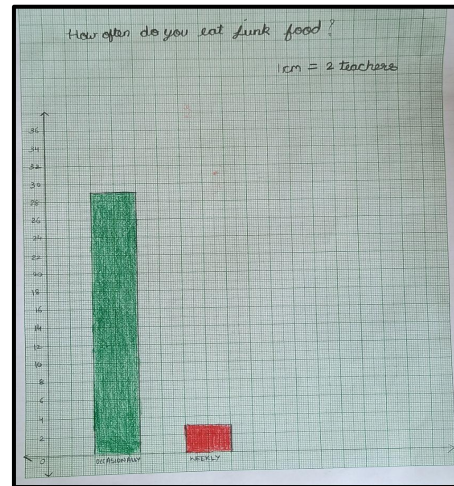
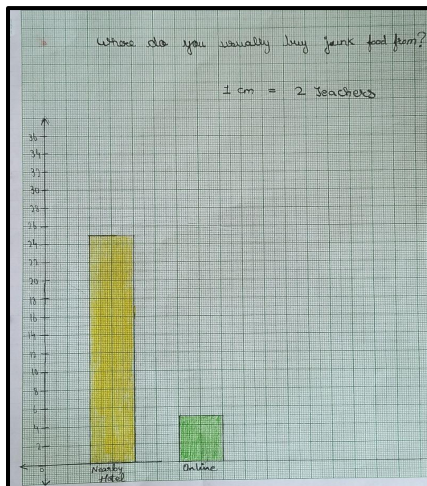
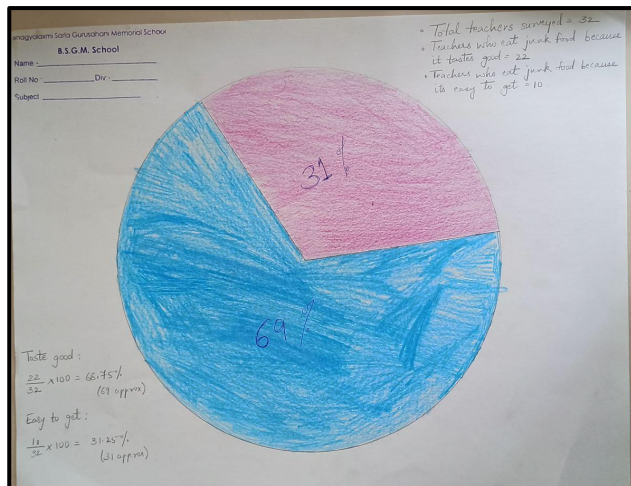
ENGLISH LITERATURE

What We Did?

- We wrote poems on junk food and healthy food.
- We conducted a survey of our teachers on their habits of consuming junk food.
- We created a podcast to spread awareness about healthy eating.

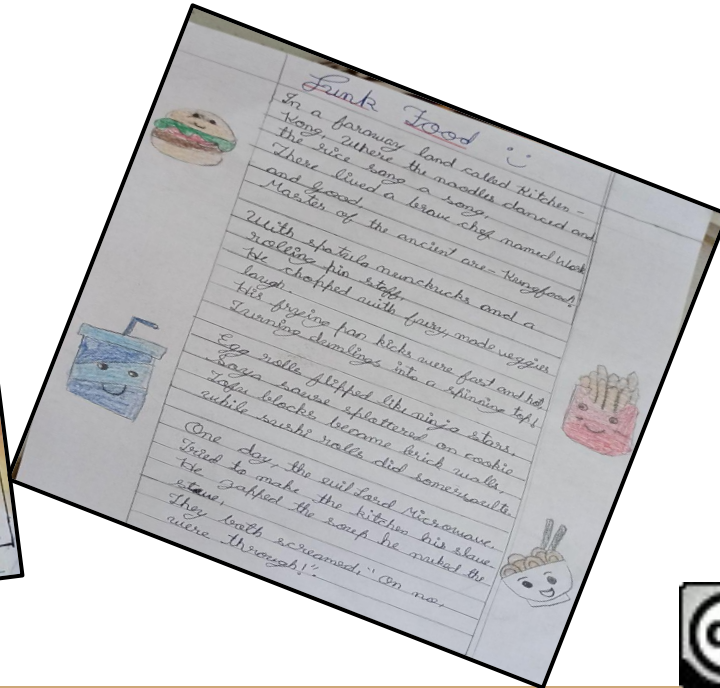


The Survey Results



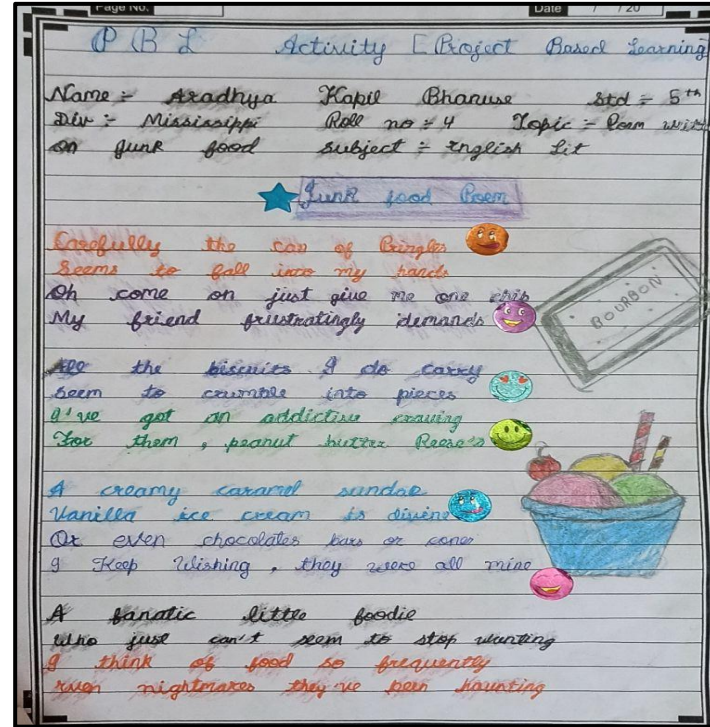
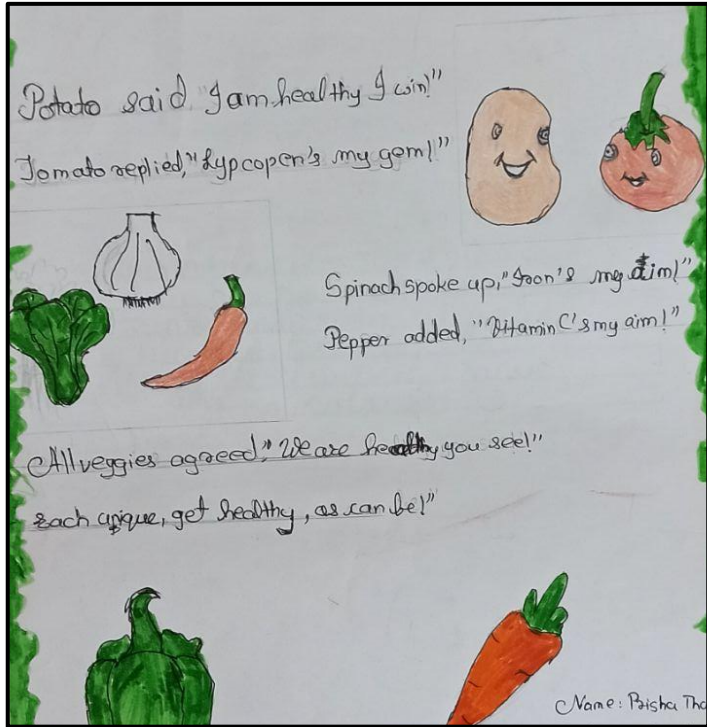
ENGLISH LITERATURE

- Some of us wrote poems on how tempting junk food is, but how it harms us.
- Others wrote about the benefits of fresh and healthy food!



ENGLISH LITERATURE

Here's a glimpse of our creative work!





ENGLISH GRAMMAR

Title: Formal Letter Writing – A Real-Life Learning Experience!

- We wanted to learn more about plants, organic farming, and nature. To make our learning more exciting, we decided to visit a botanical garden.
- But how do we ask for permission?
- By writing a formal letter!





ENGLISH GRAMMAR

- A formal letter is a letter we write to an authority or official person.
- It follows a proper format and is written in a respectful way.
- It is different from the letters we write to friends and family.
- Writing formal letters is an important skill in life!



ENGLISH GRAMMAR

Our Formal Letter to HOD of Botanical Garden, BAMU

From
Mahi Sakoo of BSGM school
N-H Gidco, Gurusahani Nagar
Ch. Sambhajinagar
11th Feb, 2025

To,
The HOD of
Botanical Garden
B.A.M University
Ch. Sambhajinagar

Subject = Permission for a trip to Botanical garden.

Respected HOD,

I am here to ask you that Can we come at your garden for a trip. We will be so lucky, if you said Yes. We will make sure that, all packets of chips or things will be thrown in dustbins. We will also research about our topic 'Organic journey', which we have learned in our PBL. We will be so happy to learn from you. We will also not pluck or touch any flowers or leaves. Please grant us permission and we will follow all rules. We will also be in discipline.

Yours obediently,
Mahi Sakoo
V. Ganga

Plot no 18
Sahar housing society
Ch. Sambhajinagar
11th Janu Feb 2025

To,
The HOD
Botanical Garden
Dr. B.A.M University
Ch. Sambhajinagar

Subject: Asking permission for a visit

Respected Sir,

I Ananya Raut wanted a permission from you to allow us to visit Botanical garden, this visit will help us a lot in our project based learning as our topic is "Our Organic Farming" we will get a lot of information through this trip. It would be a garden grand help for our team if you accept our request.

Yours Obiding obediently,
Ananya Raut
Std V Ganga

Ananya Raut Std V Ganga (29)

SCIENCE

Soil Erosion and Conservation

- Organic farming incorporates compost and other organic materials that improve soil structure and stability.
- This organic matter helps bind soil particles together, reducing the risk of erosion.



Types of Soil & Best Choice

- **Sandy Soil** – Drains fast, low nutrients
- **Clayey Soil** – Holds water, poor drainage
- **Loamy Soil** – Best for organic farming (good texture and nutrients)



Importance of Soil in Organic Farming

- Soil- Foundation of farming
- Organic practices improve soil fertility, water retention, and crop yield.



Organic Farming Practices

➤ Composting - Enriches soil naturally.



Impact on Environment

- Improves soil fertility.
- Reduces erosion and pollution.
- Supports biodiversity (earthworms, microorganisms).



Skit- Respect the Farmer's Hard Work



POEM- GO ORGANIC

♪ Plant the seeds, let them grow,
Sun and rain will help, you know!
No chemicals, keep it clean,

Go organic, yes, we should!
Grown with love, it's fresh and good!
Eat fresh veggies, fruits so bright,
Stay so strong and feel so light!

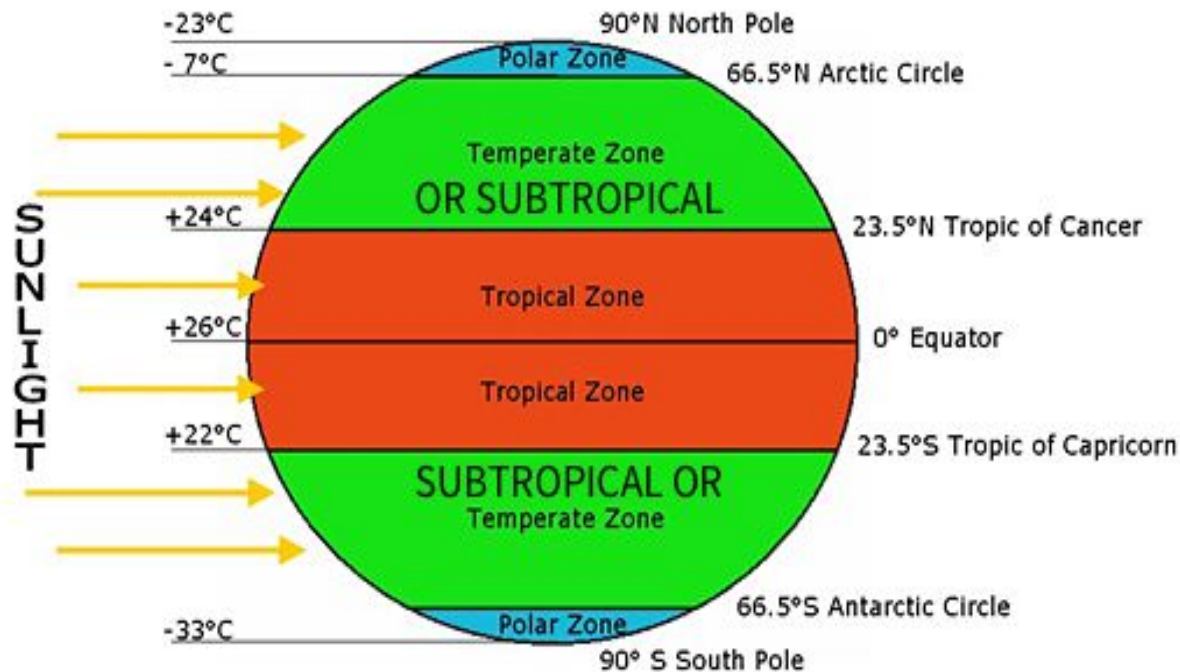
Earth is happy, soil is strong,
Nature sings a happy song!
Bugs and birds help crops grow tall,
No more sprays, no harm at all!

Go organic, yes, we should!
Grown with love, it's fresh and good!
Eat fresh veggies, fruits so bright,
Stay so strong and feel so light!



Social Studies

Integrated Lesson - Tropical and Temperate region





Chh. Sambhaji Nagar (Aurangabad)

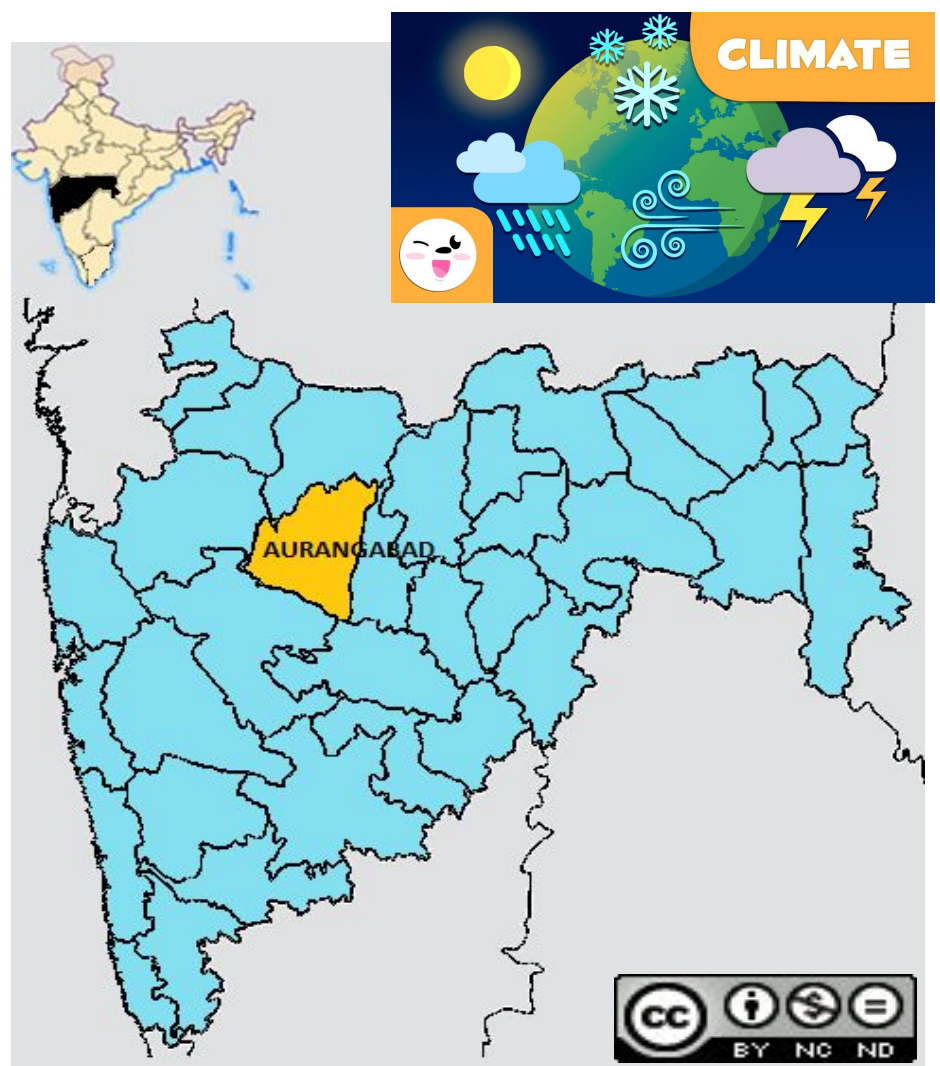
Region : Tropical

Climate :

Summer - Hot

Monsoon - Moderate

Winter- Mild



Vegetation

Summer

Tomatoes

Chilli

Cucumber

Okra

Beans

Monsoon

Fenugreek

Spinach

Bitter gourd

Coriander

Pumpkin

Winter

Cabbage

Cauliflower

Carrot

Radish

Beetroot



Page No. One

Date 11/2/2025

Bot Activity: Organic Farming Integrated Lesson - Tropical, Temperate region

Q. The Region in which Chh. Sambhaji Nagar falls:

Crops cultivation in different seasons

Ans: The Chhatrapati Sambhaji Nagar falls under the Tropical Region.

Crop cultivation in different Seasons

1. Kharif Season (June - September)

• Major crops: Rice, Jowar, Bajra, Maize, Cotton, Soybean, Groundnut. These are grown in monsoon.

2. Rabi Season (October - March)

• Major crops: Wheat, Gram (Chana), Barley, Mustard, Sunflower.

• These crops grow in winter and require less rainfall.

3. Summer Season (March - June)

• Major crops: Watermelon, Muskmelon, Cucumber, Vegetables (Tomato, okra, Brinjal), Sunflower.

• These are heat-resistant crops requiring controlled irrigation.

Name: Shweta Bharad

RAJ

2025/2/28 12:59

Page No.

Date: / / 20

IST Activity

The region in which Chh. Sambhaji Nagar falls: - Tropical region

• Crops cultivation in different seasons:-

1. Kharif Crops (June - October)

Sowing Time: - Beginning of the monsoon (June to July)

Harvesting Time: - After the monsoon (September - October)

Crops: - Rice, Maize, Sorghum, Moong, Urad, groundnut, Soybean, sunflower, cotton, jute and Ahar.

2. Rabi crops (October - March)

Sowing time: - after monsoon in October - November

Harvesting time: - Spring season, in March - April

Crops: - Wheat, Barley, Oats, gram, lentil, Mustard, linseed, Peas, carot and Cauliflower

3. Summer Crops (March - June)

Sowing Time: - February - March

Harvesting Time: - May - June

Crops: - Sugarcane, Maize, Jowar, Bajra, Moong, Urad, Watermelon, Cucumber, Muskmelon, Sunflower, Sesame

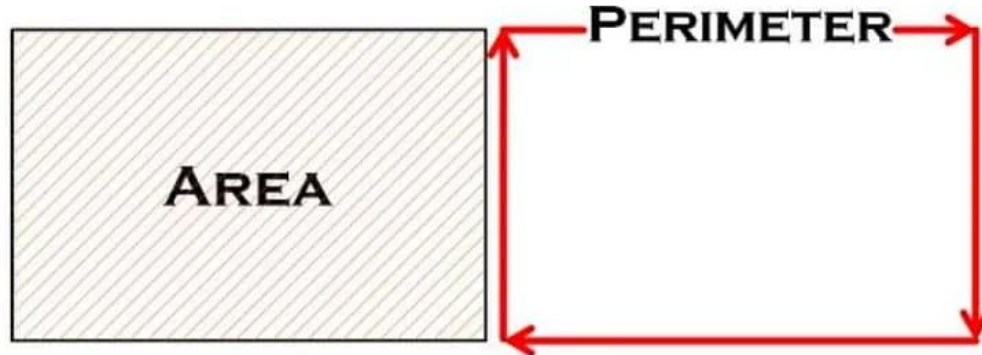
Name: Nishal Surate Div: Amgen Roll No: 36

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Perimeter and Area

- In our organic farming project, we measured the area of pots and trays using concepts like perimeter, area, and radius to plan space for growth.
- We also weighed the vegetables to track their progress and ensure optimal growth conditions.



Container: Rectangular tray

$$\begin{aligned}\text{Area of tray} &= \text{length} \times \text{width} \\ &= \text{Length} \times \text{breadth} \\ &= 85 \times 65 \\ &= 5525 \text{ sq cm}\end{aligned}$$

Perimeter of tray = $2 \times \text{Length} + 2 \times \text{breadth}$

$$\begin{aligned}&= 2 \times 85 + 2 \times 65 \\ &= 170 + 130 \\ &= 300 \text{ sq cm}\end{aligned}$$



Container 1 : circle

$$D=15\text{cm} \quad r=7.5 \text{ cm}$$

$$\begin{aligned}\text{Area of circle} &= 2\pi r \\ &= 2 \times 3.14 \times 7.5 \\ &= 47.1 \text{ sq cm}\end{aligned}$$

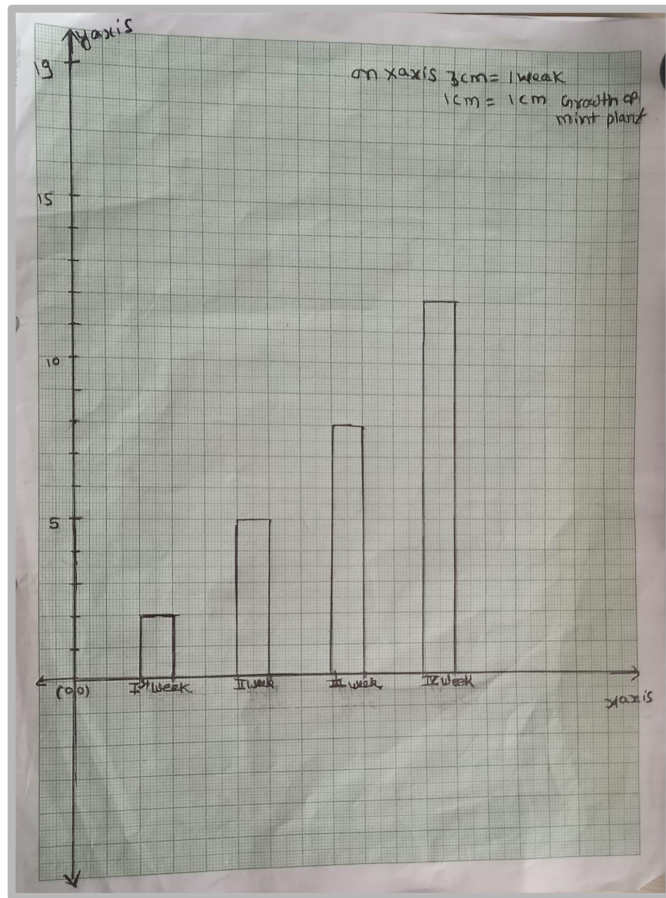
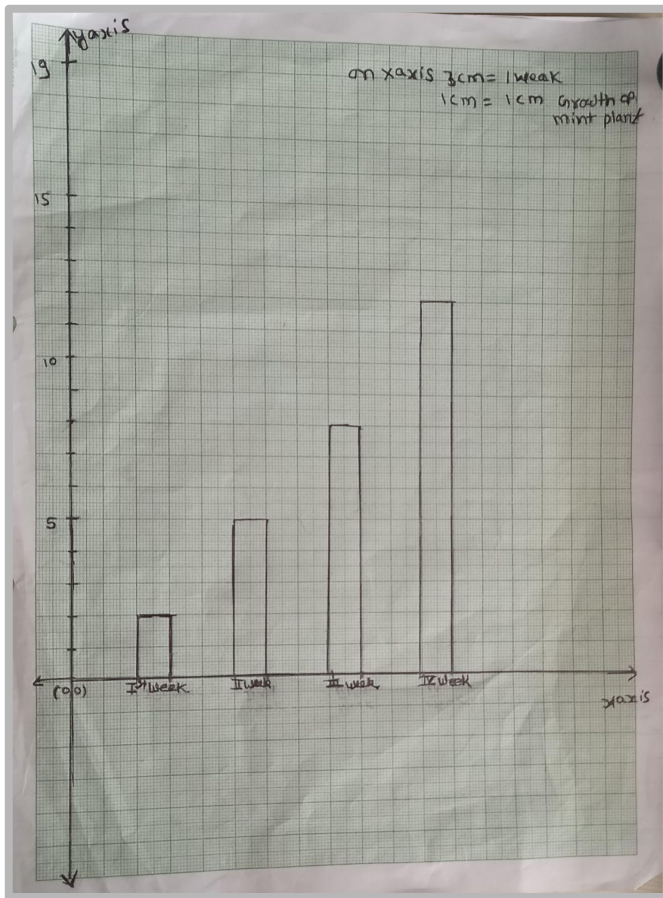
Container 2 : Circle

$$\text{Area of Circle} = 2\pi r$$

$$\begin{aligned}D &= 6\text{cm} \quad r = 3\text{cm} \\ &= 2 \times 3.14 \times 3 \\ &= 18.84 \text{ sq cm}\end{aligned}$$



Graphs



Weighing the vegetables



परिश्रम क फल

पाठ के उद्देश्य -

- किसान अन्नदाता, समाज की रीढ़ -
- आलस्य जीवन में बाधक -
- निरंतर प्रयास- किसान के परिश्रम से अवगत कराना -



खेती के दो प्रमुख प्रकार -

१. जैविक खेती -

२. रासायनिक खेती -



वर्मीकम्पोस्ट



हरी खाद



जैविक प्रबंधन



पशुपालन

जैविक खेती



खाद



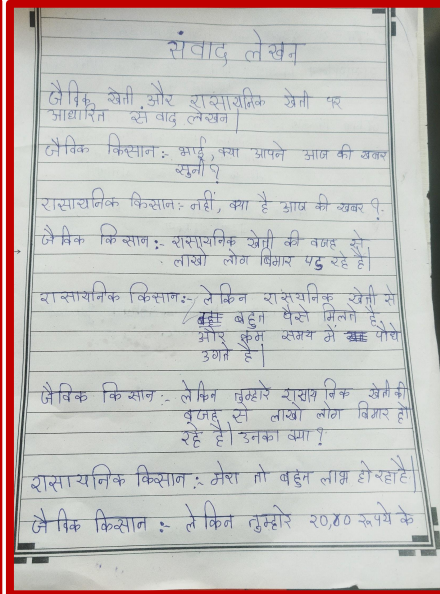
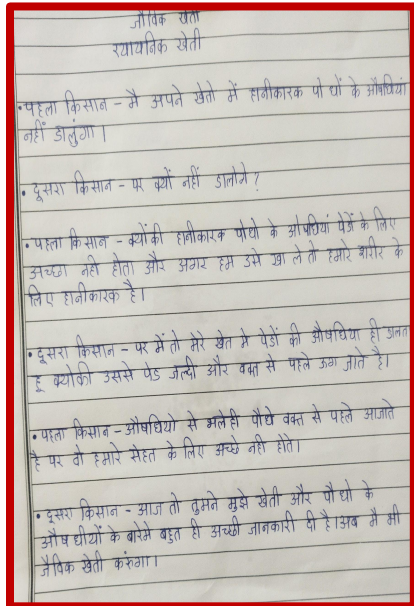
जैव उर्वरक



फसल सुरक्षा



इस प्रकल्प अंतर्गत हमने संवाद लेखन यह गतिविधि कक्षा के छात्रों ने समूह के साथ की है। जो यहां हम प्रस्तुत कर रहे हैं।



मेरे देश की धरती सोना उगले, उगले हीरे मोती
मेरे देश की धरती ...

बैलों के गले में जब घुंघरु जीवन का राग सुनाते हैं
गम कोस दूर हो जाता है खुशियों के कंवल मुस्कुराते हैं
सुनकर रहट की आवाजें यूँ लगे कहीं शहनाई बजे
आते ही मस्त बहारों के दुल्हन की तरह हर खेत सजे,
मेरे देश की धरती ...



मराठी



Integrated Topic : पत्रलेखन आणि निबंध

- **उद्देश :** पत्र लेखानद्वारे आजी आजोबा तसेच इतरांना नैसर्गिक पालेभाज्या व फळे रोजच्या जीवनात वापरणे आरोग्यदायी आहे हे सांगणे.
- **निबंध** लेखनातून सेंद्रिय शेती तसेच जैविक खते याची माहिती घेऊन त्या बदल जनजागृती करणे.

दिनांक - 28/12/25
श्री शरद साहे
गंगाराम गोसावटी
स्वातंत्र्य नगर
मोठाव - ४८५२०३

प्रिय आजोबा

आपण चांगले आहत अशी आशा आहे.
मी शाळेत निरोगी व्यावसायिक शिकत होतो.
मला या निष्ठा तुम्हाला काहीतरी महत्वाचे
सांगायचे आहे. मी शिकले की सैन्य फळे आणि
भावा व्यागे आपल्यासाठी खूप चांगले आहे.
माझे शिक्षक म्हणाले की सैन्य फळे आणि भावा
व्यागे आपल्याला आनंदी घडव्यापासून दूर
राहण्यास मदत करतात. युद्धा वेळी बाजारदल
भावा व फळे सैन्य फळे देऊन या. तेच आपल्या
आरोग्यासाठी चांगले आहे.

तुमचा नातू
अनुज

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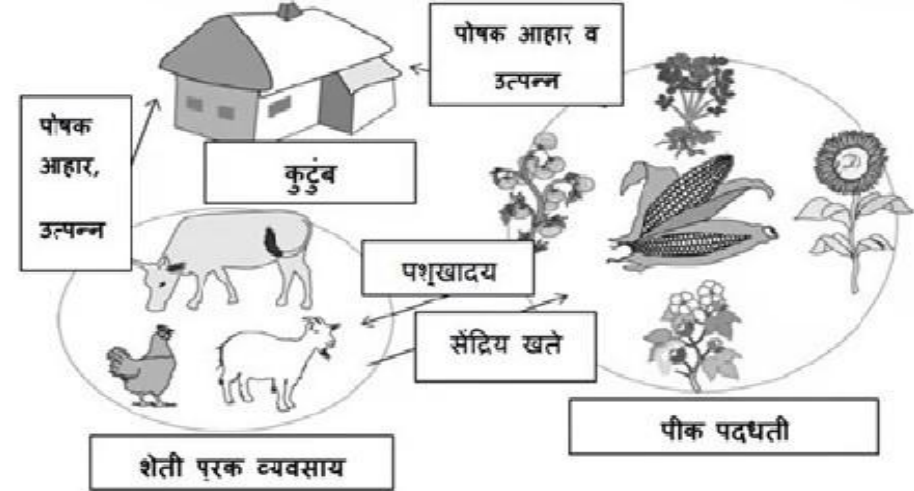
सॅद्रिय शेती दोन प्रकारची असते.

1. शुद्ध सॅद्रिय शेती : या शेतीमध्ये नैसर्गिक मार्ग वापरले जातात. सॅद्रिय किटकनाशके आणि जैविक खते वापरली जातात.



2. एकात्मिक सॅद्रिय शेती :

ही एक चक्रीय शेती पद्धत आहे. या पद्धतीत एका प्रक्रियेतील टाकाऊ पदार्थ इतर प्रक्रियांसाठी पोषक म्हणून वापरले जातात. यामुळे संसाधनांचा जास्तीत जास्त वापर करता येतो आणि उत्पादनाची कार्यक्षमता वाढते.



एकात्मिक शेती पद्धती मॉडेलमधील संसाधन प्रवाह

जैविक खते : यात प्रामुख्याने गांडूळ खते वापरली जातात . गांडूळ हा जमिनीत राहणारा प्राणी आहे. गांडूळ खतात वनस्पतीच्या वाढी साठी लागणारी अन्न द्रव्ये , संप्रेरके असतात. वनस्पतीची रोग प्रतिकारक क्षमता वाढवते.





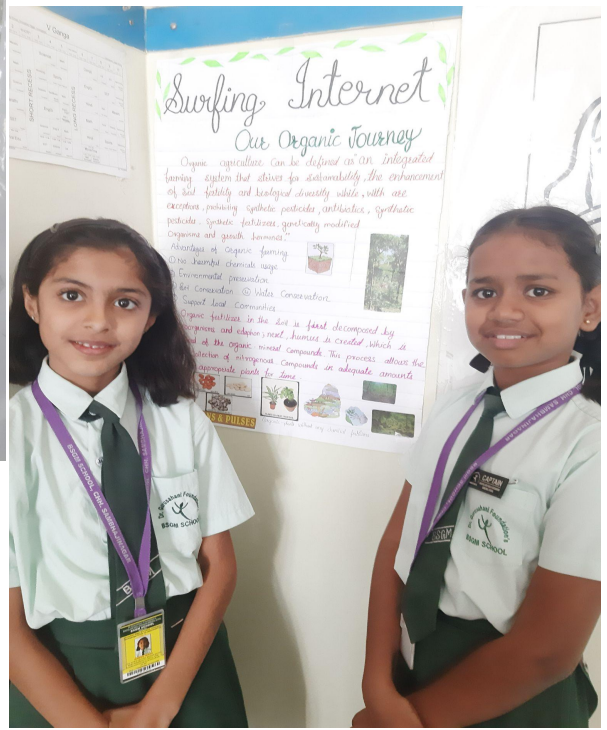
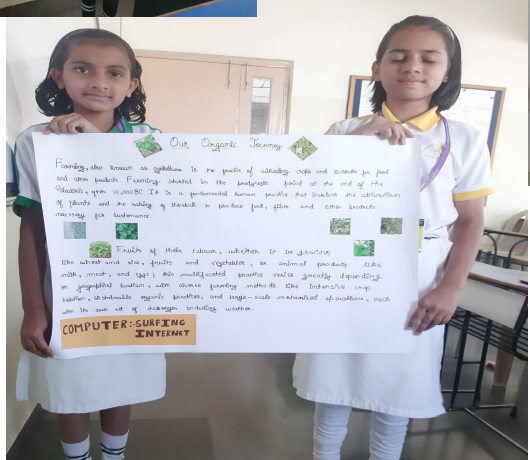
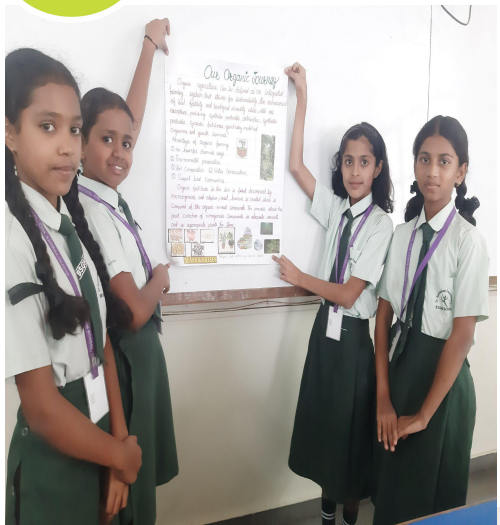


Integrated Topic-Internet Research Exploration

- We browsed the network to gather information.
- We made charts to show what we have learnt.
- We learnt about organic farming.
- We got better at browsing the Network.



Chart Presentation



Online Research



Project Overview

Key Slides Snapshot



Organic farming - Microsoft PowerPoint

Home Insert Design Animations Slide Show Review View Format

Cut Copy Paste Format Painter Clipboard New Slide Reset Delete Layout Slides Outline

Font Paragraph Drawing Editing

Slides Outline

1 **Class-5**
From Soil to Table - Exploring the Journey of Organic Farming and Its Impact on Food Quality

2 **Introduction to Organic Farming**
Project-Based Learning on Organic Farming

3 **What is Organic Farming?**

- Organic farming is a way of growing crops without using harmful chemicals or pesticides.
- It uses natural ways to help plants grow healthy.

NURTURING The Earth
Exploring the Benefits

4 **Why is Organic Farming Important?**

- Better for Health:** Organic foods are healthier because they don't have chemicals.
- Environment Friendly:** It helps protect nature and keeps the soil healthy.
- Supports Wildlife:** Organic farming helps animals and insects by using natural methods.

Click to add notes

Slide 1 of 12 "Office Theme" English (United States)

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Class-5

**From Soil to Table - Exploring the
Journey of Organic Farming and Its
Impact on Food Quality**



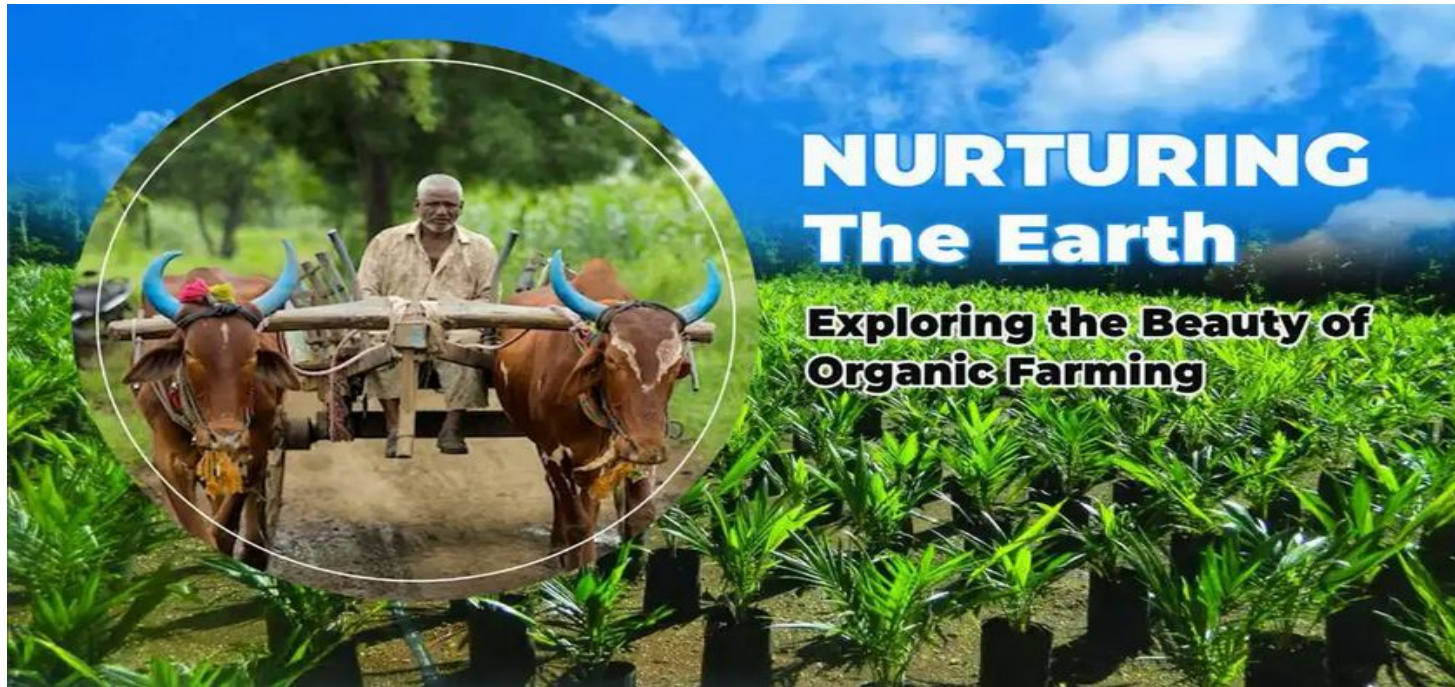
Introduction to Organic Farming

Project-Based Learning on Organic Farming



What is Organic Farming?

- Organic farming is a way of growing crops without using harmful chemicals or pesticides.
- It uses natural ways to help plants grow healthy.



Why is Organic Farming Important?

- Organic foods are healthier because they don't have chemicals.
- It helps protect nature and keeps the soil healthy.
- Organic farming helps animals and insects by using natural methods.



What Makes Organic Farming Different?

- No harmful pesticides and fertilizers.
- Uses compost, manure, and crop rotation.
- Keeps the soil healthy for future crops.

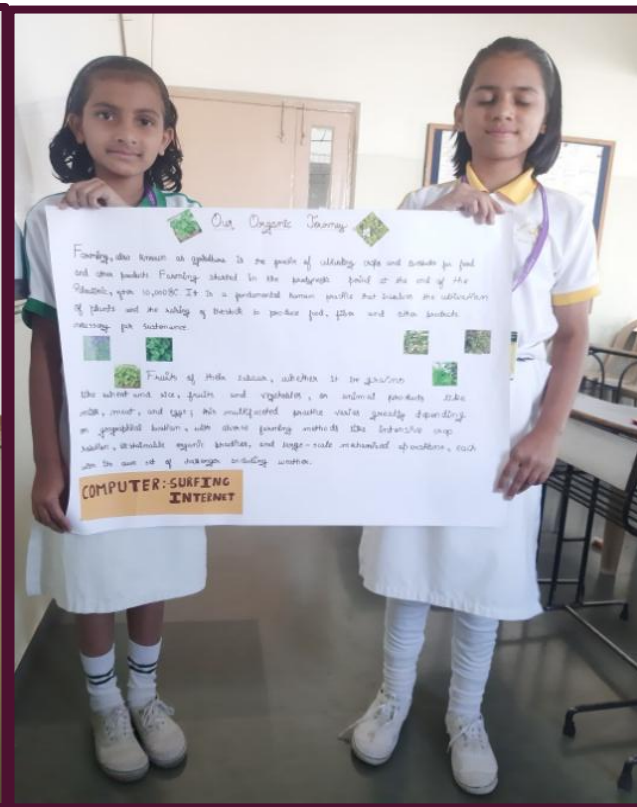
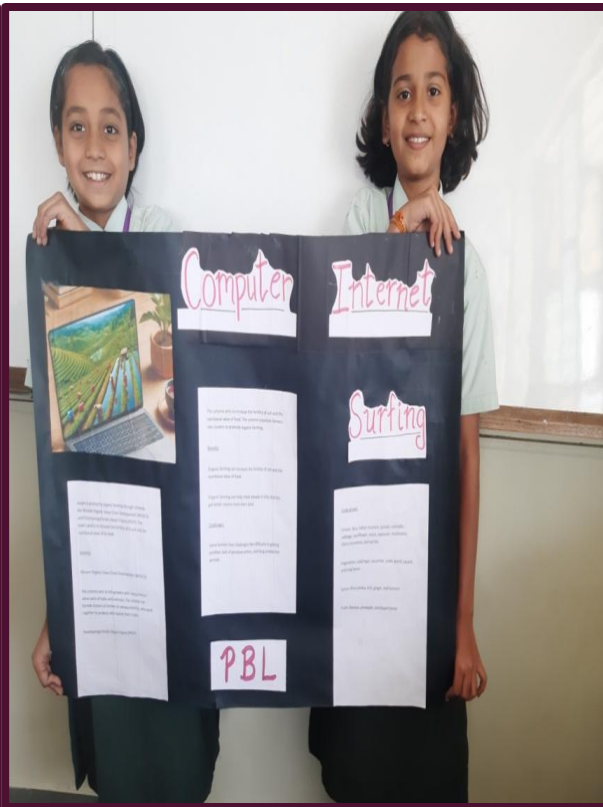
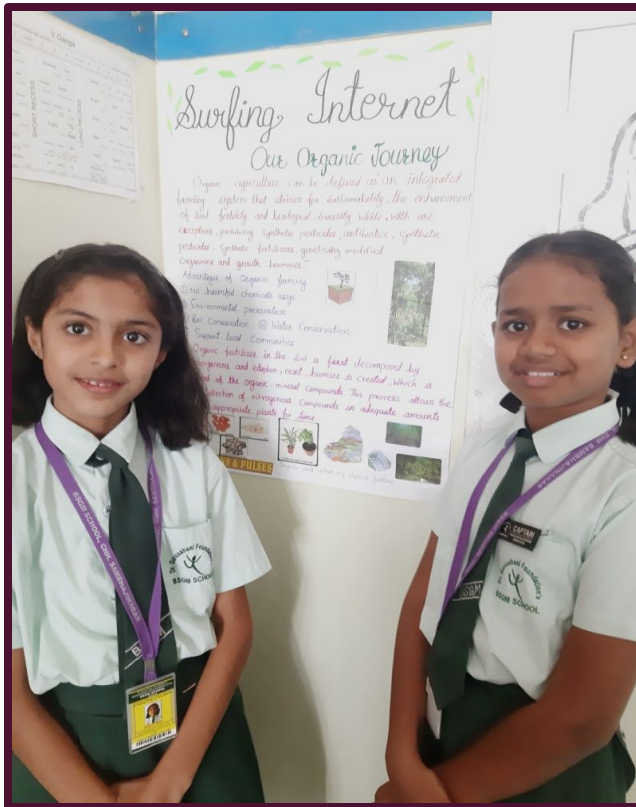


Project-Based Learning Connection

- We used the internet to research how organic farms work.
- **Activity:** We visited Botanical Garden and created a small garden project.
- **Research:** We researched the methods and benefits of organic farming and also created charts.



Online Research Insights-Chart Presentation



Seed Planting Activity



Benefits of Organic Farming

- Organic food is safe and nutritious.
- It helps preserve the Earth for future generations.
- Organic farms can help local farmers and businesses.



Key Takeaways

1. Organic farming is good for health and the planet.
2. It's a natural way to grow food.
3. We can learn about it through hands on activity, experts and research.





THINK ORGANIC FOR A BETTER LIVING!

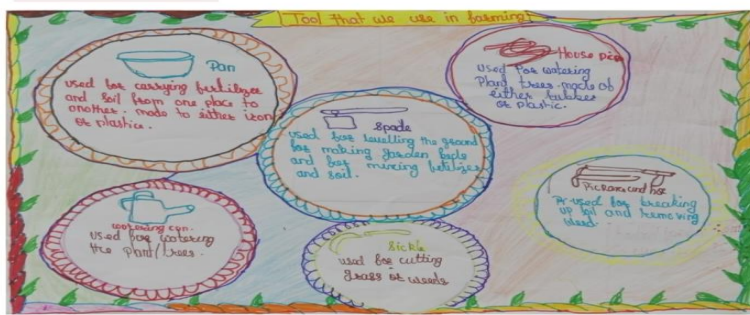
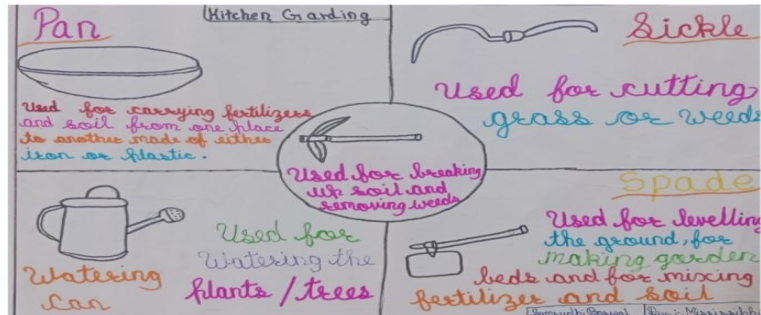
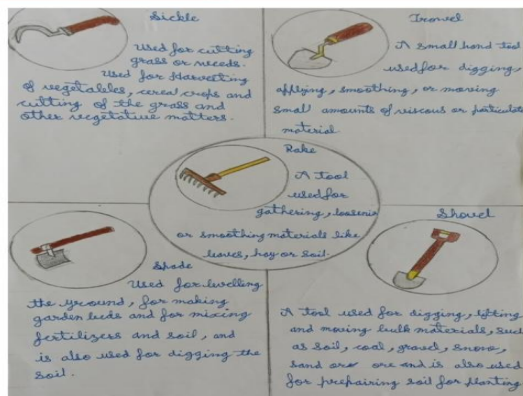
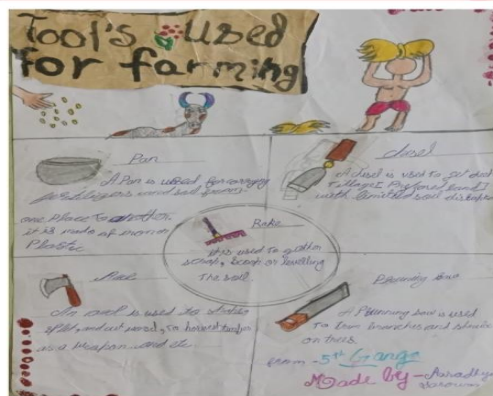
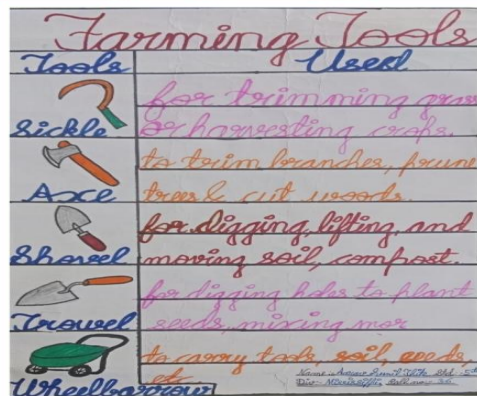
Thank You !





Theme of the presentation

> Art integration in Education



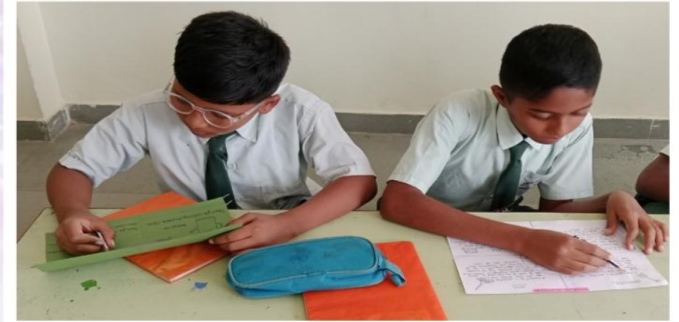


Hands on - experience with farming

> Got our hands dirty - literally .!



Impact of the project



> We lived it .!



M S Dhoni



Sania Mirza



Sachin Tendulkar



Mary Kom



What are the side effects of the junk food?



Why do healthy food is important for healthy body?



Tips for Organic farming

- Organic Manure
- Crop Rotation
- Biological Pest Control
- Weed Management
- Resistant Varieties



Journal- The Journey of our Organic Farming





THANK YOU!