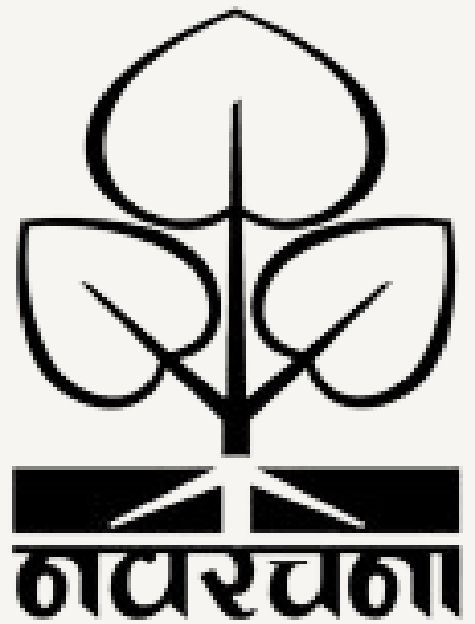




## BEYOND THE BIN -Waste Segregation and Plastic Reduction (SDG 12 & SDG 14)



## 1. Project Launch & SDG Awareness

Students participated in a creative activity to give used paper bags a new purpose. Instead of discarding the bags, students carefully cut, folded and reused the paper to make envelopes and small booklets.



## 2. 🔍 Waste Audit & Assessment

The students of the SDG Club, Navrachana Higher Secondary School, Sama, interacted with the school canteen manager to understand the canteen's daily activities and waste management practices. The students discussed various aspects of waste segregation, reduction of food waste, responsible use of resources, and proper disposal of waste. The interaction provided students with valuable insights into how sustainable practices can be incorporated into everyday canteen operations.\*Small conversations, meaningful learning, and responsible action! 🌍



### 3. Research & Awareness

Assembly conducted for the Awareness of our project and activity of decorating our school bulletin boards was done in each section to spread awareness of plastic reduction and reusing waste in our surroundings.



## 4. 🗑️ Designing the Segregation System

Smart sorting.... Designing sorting system



## 5. 📢 School Awareness Campaign

The Skit on 'Every grain of Food has Value' focused on helping students understand that food involves valuable resources such as water, soil, energy, human effort and money. Students were encouraged to take only as much food as they could finish, avoid unnecessary wastage, and appreciate the effort involved in bringing food from the farm to their plate. The activity concluded with the message: "Value Food, Respect Resources, Reduce Waste!"



## 6. Implementation of Segregation

As part of the school's Waste Management and Sustainable Living initiative, a cloth donation and recycling activity was conducted to sensitise students about the importance of reusing clothes, reducing textile waste, and supporting those in need. The activity concluded with the message: "Donate, Reuse, Recycle—Give Clothes a New Life!"



## 7. No Single-Use Plastic Week

Cloth Reusing Activity as part of the school's waste-reduction and sustainability initiative. The activity helped students understand the importance of Reuse, Reduce and Recycle while developing their creativity and practical skills. It encouraged them to view old clothes as useful resources rather than waste. They have not used a single plastic bags this week and encouraged cloth bags to be used for their daily use.



## 7. 🚫🥤 No Single-Use Plastic Week (B)

Students brought clean and unused plastic bottles and other reusable materials. With appropriate guidance, the bottles were converted into planters and filled with soil. Students then planted small flowering plants and seeds in them. The activity provided a practical understanding of the 3R principle - Reduce, Reuse and Recycle, with special emphasis on reuse.

Similar bottle-planter activities are widely used in environmental education to demonstrate creative ways of reducing packaging waste.\*\* "Reuse Today, Grow a Greener Tomorrow!"



## 8. Expert & Community Interaction

Interaction session was conducted by the leading NGO of the city to spread the benefits of donating the used or unwanted clothes by donating to the needy people . They handed over the collected cloth for Recycling to Samkhya foundation.



## 9a. 🎨 Creative Recycling & Upcycling

### (ECO BRICKS)

Through hands-on participation, students developed awareness about the harmful effects of plastic waste and learned how everyday waste can be given a useful purpose. The activity also encouraged teamwork, creativity and environmental responsibility. Key Message: "Pack the plastic, build a solution, and protect our planet!"



## 9b. Plastic Brick Installation

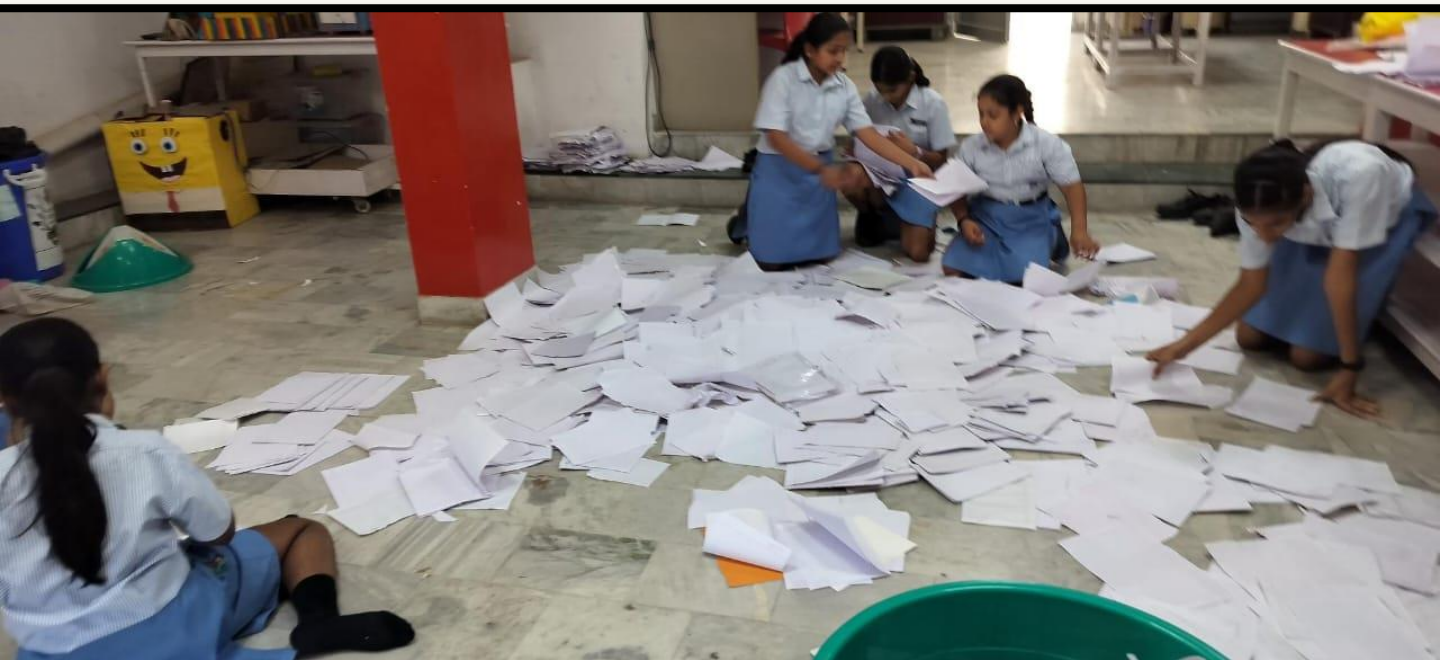
**Eco-Brick Installation Activity** aimed to promote the responsible reuse of plastic waste and how discarded materials can be transformed into useful and sustainable resources. Students installed the eco bricks along the school garden bed, creating a simple protective boundary around the plants.



## 10. 🏠 Community Awareness Drive

The students of Classes 3 to 8 of Navrachana Higher Secondary School, Sama enthusiastically participated in Purane Panne, Naya Rang, an eco-friendly initiative by Vadodara Marathon. It was heartening to observe that many students were already practicing the habit of reusing old notebooks and unused papers for classwork, practice, and creative activities.

♻️📄 The initiative helped strengthen students' understanding that small, conscious actions can make a big difference in conserving our environment.

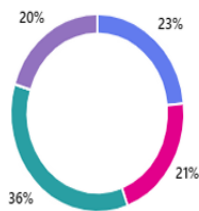


# 11. Evaluation & Impact Measurement

Collected data from teachers, parents and students by filling up the survey form. The responses are attached below.

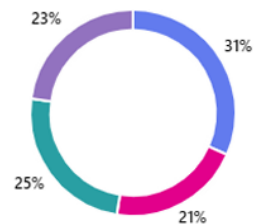
Paper is reused before disposal.

|             |    |
|-------------|----|
| ● Always    | 37 |
| ● Often     | 33 |
| ● Sometimes | 56 |
| ● Never     | 32 |



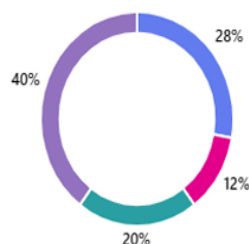
Students correctly segregate paper, food and other waste.

|             |    |
|-------------|----|
| ● Always    | 50 |
| ● Often     | 33 |
| ● Sometimes | 39 |
| ● Never     | 36 |



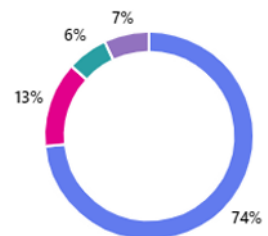
Separate bins are available for different waste types.

|             |    |
|-------------|----|
| ● Always    | 44 |
| ● Often     | 19 |
| ● Sometimes | 32 |
| ● Never     | 63 |



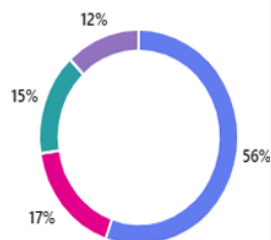
Students use reusable water bottles.

|             |     |
|-------------|-----|
| ● Always    | 116 |
| ● Often     | 21  |
| ● Sometimes | 10  |
| ● Never     | 11  |



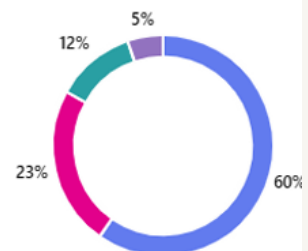
Sufficient waste bins are available.

|             |    |
|-------------|----|
| ● Always    | 87 |
| ● Often     | 27 |
| ● Sometimes | 24 |
| ● Never     | 19 |



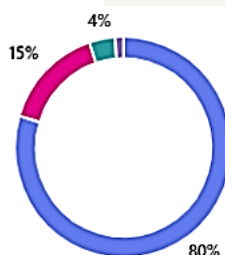
The area is inspected after sports/events.

|             |    |
|-------------|----|
| ● Always    | 92 |
| ● Often     | 36 |
| ● Sometimes | 18 |
| ● Never     | 8  |



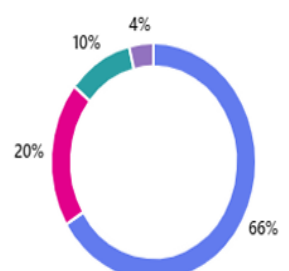
Students are encouraged to leave the area litter-free.

|             |     |
|-------------|-----|
| ● Always    | 125 |
| ● Often     | 24  |
| ● Sometimes | 6   |
| ● Never     | 2   |



Food wastage is monitored.

|             |     |
|-------------|-----|
| ● Always    | 104 |
| ● Often     | 31  |
| ● Sometimes | 16  |
| ● Never     | 6   |



## 12. Presentation & Sustainability Plan

As part of the Plastic Free July initiative, Navrachana Higher Secondary School, Sama successfully collected 76 kg of plastic waste during the month of July. The collected plastic was properly segregated and handed over to Eco Vision for responsible recycling.

