

**LAKSHMIPAT SINGHANIA ACADEMY**

**OPEN BOOK PROJECT**

**SESSION: 2024 – 2025**

**TERM: 2**

**CLASS – III**

**THEME: WASTE MANAGEMENT**

- ✚ All projects to be done in school.
- ✚ Instructions given by each subject teacher to be read carefully.
- ✚ Only research work required for the projects to be done at home.
- ✚ No written work to be done at home for the projects.
- ✚ Materials required for the projects to be brought by the group members.
- ✚ All group members must participate actively in the execution of the projects.

**ENGLISH****CLASS – III****FULL MARKS - 20**

- 
- The English project has two aspects: **Designing a Flyer and Vocabulary-based Activity**
  - Read the instructions carefully.
  - Refer to the internet to gather information but you must write the matter in your own words.
  - You may either draw and colour or stick relevant pictures.
- 

**THEME: WASTE MANAGEMENT****LEARNING OBJECTIVES**

After the completion of the project students will be able to -

- design a flyer using their creativity
  - develop competence and confidence to write independently
  - express themselves in grammatically correct sentences
  - improve their vocabulary
  - know how unwanted waste can be managed effectively
- 



Waste management is the process of managing unwanted waste items that have served their purpose and are no longer useful. It includes collecting, transporting, processing, and disposing of waste safely. Proper trash disposal is important to protect the environment and people's health.

**WHAT YOU NEED TO DO: DESIGN A FLYER & SOLVE A VOCABULARY-BASED ACTIVITY**

**The class will be divided into six groups. Each group will do the following as given below.**

**1. Design a flyer for the Zero-Waste Lunch Week organised in your school.**

A flyer is a piece of paper with information written on it. Flyers are distributed or handed over to people to inform them about something.

Imagine you are a member of the eco-club in your school and have been given the responsibility to inform students about the Zero-Waste Lunch Week organized by the club. Having a zero-waste lunchbox means no waste left after consuming your lunch. If you do have waste, it is 100% compostable or recyclable.

Your flyer must include the following –

- A suitable title/heading of your choice.
- A message to the students about why Zero-Waste Lunch Week has been organized.
- 3 things that can be packed and 3 things to avoid for a zero-waste lunch box.
- Suitable pictures (at least 2)

You may use either a white or light-coloured Fabriano sheet. You can also use half a chart paper to make the flyer.

**Note- Do not forget to mention your group number, class, section and roll numbers of the group members behind the flyer.**



## 2. Vocabulary-based Activity

Students will be given a passage related to the theme. They will read the passage and solve the vocabulary-based activities. A worksheet with the passage and the activities will be given to each group on the day they have the English project in school.

### LEARNING OUTCOME

At the end of the project, students should be able to know about waste management, what is meant by a flyer, improve their vocabulary and critical and analytical skills, develop creative and research skills, and express themselves in grammatically correct sentences.

**RUBRIC**

<b>CATEGORY</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Accuracy</b>	<p>The flyer addresses the requirement in a meaningful and relevant way. The information is accurate and demonstrates proper research work.</p> <p>Excellent at identifying the words given in the vocabulary-based activity.</p>	<p>The flyer addresses the requirement partially in a meaningful and relevant way. The information is accurate and demonstrates partial research work.</p> <p>Good at identifying the words given in the vocabulary-based activity.</p>	<p>The flyer addresses the requirement. The information is presented but not in a cohesive manner and has scope for more research work.</p> <p>Able to identify some words given in the vocabulary-based activity.</p>	<p>The flyer somewhat addresses the requirement, but not cohesively or concisely. Lacks proper research work.</p> <p>Unable to identify any words given in the vocabulary-based activity.</p>
<b>Style of Writing—choice of words, grammar and Spelling</b>	<p>Used grammatically correct sentences with little to no error. Used proper and related vocabulary with negligible spelling errors.</p>	<p>Used sentences with partial grammatical errors. Used related vocabulary with one to two spelling errors.</p>	<p>Used sentences with quite a few grammatical errors. Limited use of vocabulary with three or more spelling errors.</p>	<p>Sentences are grammatically incorrect. Did not use related vocabulary and has plenty of spelling errors.</p>
<b>Art Integration</b>	<p>The illustrations were exceptionally done and shows creative and artistic expertise. The pictures used are absolutely relevant to the theme.</p>	<p>The illustrations were quite exceptionally done and shows some creative and artistic expertise. The pictures are moderately relevant to the theme.</p>	<p>The illustrations were average in its creative and artistic approach. The pictures are to some extent relevant to the theme.</p>	<p>The illustrations lack creative and artistic approach. The pictures are not relevant to the theme.</p>

<b>Creativity and Originality</b>	Displays great amount of creativity and originality.	Displays good amount of creativity and originality.	Displays limited amount of creativity and originality.	Displays lack of creativity and originality.
<b>Individual Participation</b>	Always contributed to the project.	Contributed to the project most of the time.	Sometimes contributed to the project.	Did not contribute to the project.

Class-III  
Subject-Hindi 2<sup>nd</sup> Language

FM=20

### TOPIC- अपशिष्ट प्रबंधन

#### उद्देश्य (Objectives)

- कल्पनाशीलता का विकास
- रचनात्मकता का विकास
- भाषा शैली का विकास
- व्यावहारिक ज्ञान का विकास
- भाषिक क्षमता और वैचारिक क्षमता का विकास
- अपशिष्ट प्रबंधन से परिचय
- बुकलेट की प्रक्रिया और महत्व से परिचय
- विद्यार्थी भारतीय अपशिष्ट प्रबंधन के प्रकार, महत्व, विविध परिप्रेक्षों से परिचित होंगे
- वर्तमान समय में अपशिष्ट प्रबंधन की आवश्यकता एवं प्रक्रिया को समझने में



- प्रिय बच्चों, हम सभी मनुष्यों के लिए हमारा वातावरण बहुत महत्वपूर्ण है। इसे साफ बनाए रखना हम सभी का दायित्व है। साफ सफाई बनाए रखने के लिए कचरा प्रबंधन आवश्यक है। इसके महत्व को ध्यान में रखते हुए, अपनी खोजों के आधार पर विद्यार्थी इस परियोजना कार्य को पूर्ण करेंगे।

➤ **परियोजना कार्य से संबन्धित सामान्य निर्देश - (सामूहिक कार्य)**

✓ परियोजना के लिए आवश्यकतानुसार चार्ट पेपर अथवा A4 साइज पन्नों का इस्तेमाल करें।

<https://youtu.be/yGb9nnOGryk>

अ) उपर्युक्त लिंक अथवा अपनी खोजों के आधार पर पुस्तिका (booklet) का निर्माण करें।

ब) घर में पाए जाने वाले अपशिष्ट वस्तुओं का उपयोग कर किसी नई वस्तु का निर्माण करना एवं उसकी प्रस्तुति।

अ 'पुस्तिका (booklet)' निर्माण में निम्नलिखित बिंदुओं का समावेश अवश्य हो -

क) विद्यार्थी अपनी पुस्तिका बनाएँगे और उसको एक नाम देंगे।

ख) प्रथम पृष्ठ की आकर्षक प्रस्तुति।

ग) अपनी पुस्तिका के लिए विषय से संबंधित आकर्षक नारा तैयार करेंगे।

घ) विषय से संबंधित विविध चित्रों का प्रयोग करेंगे।

ङ) अपशिष्टों के प्रकार (नाम एवं चित्र सहित)

च) अपशिष्ट प्रबंधन की आवश्यकता (२-चित्र सहित)

छ) अपशिष्ट प्रबंधन कैसे करें?(२-चित्र सहित)

ज) प्रस्तुति एवं भाषा पर विशेष ध्यान दें।

**ब) प्रस्तुति-** घर में पाए जाने वाले अपशिष्ट वस्तुओं का उपयोग कर किसी नई वस्तु का निर्माण करना एवं उसकी प्रस्तुति। (प्रस्तुति के समय निम्नलिखित बातों का अवश्य ध्यान रखें)

- नई वस्तु को दिया गया कोई नया नाम
- नई वस्तु के निर्माण में इस्तेमाल हुए अपशिष्ट पदार्थों के नाम
- उच्चारण
- सरल, स्पष्ट एवं सुबोध भाषा

**LEARNING OUTCOMES (अधिगम प्रतिफल)**

इस परियोजना कार्य के माध्यम से विद्यार्थी अपशिष्ट प्रबंधन के इतिहास एवं महत्व से परिचित हुए, उनके प्रकार, उनके निपटान के प्रति जागरूक हुए, अपशिष्ट प्रबंधन की प्रक्रिया एवं मानव एवं देश के विकास के लिए उनके सही प्रबंधन की आवश्यकता तथा पुस्तिका निर्माण की कला को सीखने में सक्षम हुए।

**RUBRICS FOR CLASS 3 HINDI PROJECT(UT\_3)**

मानदंड	4	3	2	1
विषय-वस्तु का प्रभावी और सृजनात्मक वर्णन	विषय सामाग्री से जुड़े तथ्यों पर गहरा शोध और लेख में सटीक एवं विषयानुरूप वर्णन है।	एक या दो तथ्यात्मक त्रुटियों के अलावा अधिकांश तथ्य सही एवं विषयानुरूप हैं।	कुछ तथ्य विषयानुरूप हैं पर तीन से अधिक त्रुटियाँ पाई गई हैं।	प्रयुक्त लेखों में विषय सामाग्री स्पष्ट नहीं है।
कलात्मक क्षमता एवं चित्र संकलन	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए रंगों साजसज्जा - की सामग्री, तस्वीरों का अच्छा उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए रंगों साज-सज्जा की सामग्री , तस्वीरों का कुछ उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए रंगों साजसज्जा - की सामग्री, तस्वीरों का कम उपयोग।	परियोजना के विषय की प्रभावी अभिव्यक्ति के लिए रंगों साजसज्जा - की सामग्री, तस्वीरों का उपयोग नहीं किया गया।
भाषा का प्रयोग	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण—विन्यास एवं विराम चिह्न संबंधी त्रुटियाँ न होना। सहज एवं बोधगम्य भाषा का उपयुक्त प्रयोग।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण—विन्यास एवं विराम चिह्न संबंधी कुछ ही त्रुटियाँ का होना।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण—विन्यास एवं विराम चिह्न संबंधी त्रुटियाँ के कारण भाषा की उपयुक्तता का अभाव पाया जाना।	प्रस्तुतीकरण में वाक्य-विन्यास, वर्ण—विन्यास एवं विराम चिह्न संबंधी त्रुटियाँ के कारण विषयानुसार भाषा का प्रयोग न हो पाना।



<p>व्यक्तिगत स्तर पर दिशा निर्देशों का पालन/ समयनिष्ठता</p>	<p>व्यक्तिगत स्तर पर दिशा निर्देशों का कड़ाई से पालन एवं समयानुसार कार्य सम्पन्न होना ।</p>	<p>व्यक्तिगत स्तर पर अधिकांश निर्देशों का पालन एवं समयानुसार कार्य सम्पन्न होना।</p>	<p>व्यक्तिगत स्तर पर बहुत कम दिशा निर्देशों का पालन एवं अतिरिक्त समय देने के पश्चात कार्य सम्पन्न होना।</p>	<p>व्यक्तिगत स्तर पर दिशा निर्देशों का पालन एवं समयानुसार कार्य सम्पन्न न हो पाना।</p>
<p>समग्र प्रस्तुति</p>	<p>परियोजना का समग्र प्रभाव रोचक और आकर्षक।</p>	<p>परियोजना का समग्र प्रभाव ध्यान आकर्षण के लिए पर्याप्त।</p>	<p>परियोजना की समग्र प्रस्तुति को आकर्षक बनाने के लिए कुछ ही प्रयास किया गया।</p>	<p>समग्र प्रस्तुति को रोचक बनाने के लिए विद्यार्थी ने किसी प्रकार का प्रयास नहीं किया।</p>

## TOPIC- বর্জ্য ব্যবস্থাপনা ( Waste Management )

### উদ্দেশ্য (Objectives)

- কল্পনার বিকাশ
- সৃজনশীলতার বিকাশ
- ভাষাশৈলীর বিকাশ
- ব্যবহারিক জ্ঞানের বিকাশ
- নৈতিক মূল্যবোধের বিকাশ
- ভাষাগত ক্ষমতা এবং ধারণাগত ক্ষমতার বিকাশ



বর্জ্য ব্যবস্থাপনা হল এমন একটি শব্দ যা বর্জ্য ব্যবস্থাপনার জন্য গৃহীত বিভিন্ন পদক্ষেপ এবং পরিকল্পনার সকলকে বোঝায়, কম্পোস্ট করা বা বিদ্যমান বর্জ্য পুনর্ব্যবহার করা থেকে শুরু করে বর্জ্যের উৎপাদন কমিয়ে আনা পর্যন্ত।

## প্রকল্প উপস্থাপনা হবে দুই ভাগে

### দলগত প্রকল্পের কাজ

প্রকল্পের কাজ সংক্রান্ত প্রয়োজনীয় নির্দেশাবলী :  
প্রয়োজন অনুযায়ী চার্ট পেপার এবং A4 সাইজ পেপার ব্যবহার করবে।

#### **ক) প্রকল্পের কাজ - পোস্টার তৈরি**

বাংলা প্রকল্প কাজের অধীনে, তোমরা একটি পোস্টার তৈরি করবে।  
পোস্টারে নিম্নলিখিত বিষয়গুলি অন্তর্ভুক্ত করা অত্যন্ত প্রয়োজনীয়।

- পোস্টারে একটি আকর্ষণীয় শিরোনাম দেবে।
- থিম সম্পর্কিত কিছু ছবি পেস্ট করবে।
- থিম প্রতিফলিত হয় এমন দুটি স্লোগান লিখবে।
- ছবি সহ পাঁচটি উপায় কিভাবে তোমরা বর্জ্য হ্রাস করতে পারবে।
- মৌখিক বর্ণনা
- প্রকল্পের কাজের উপস্থাপনা এবং ভাষার প্রতি বিশেষ মনোযোগ দেওয়া জরুরী।

#### **খ) সৃজনশীল ক্রিয়া -**

- ❖ ইউটিলিটি অবজেক্ট (ব্যবহার্য কাজের বস্তু তৈরি)
  - বর্জ্য থেকে সম্পদ- 3R এর কথা মাথায় রেখে বর্জ্য পদার্থ দিয়ে একটি উপযোগী বস্তু তৈরি করো - হ্রাস করো, পুনরায় ব্যবহার করো এবং পুনর্ব্যবহার করো।

#### **LEARNING OUTCOMES (কার্যের কাঙ্ক্ষিত ফলাফল )**

এই প্রকল্পের কাজের মাধ্যমে শিক্ষার্থীরা বর্জ্য পদার্থ হ্রাস করতে, পুনরায় ব্যবহার করতে এবং পুনর্ব্যবহার করতে সক্ষম হয়েছে।

**Evaluation Rubric (2024-2025)**

Skills দক্ষতা	Competency যোগ্যতা			
	4	3	2	1
বিষয়বস্তুর কার্যকরী এবং সৃজনশীল বর্ণনা	বিষয়ের সাথে সম্পর্কিত তথ্যগুলির উপর গভীর গবেষণা রয়েছে এবং নিবন্ধে বর্ণনাটি বিষয়ের সাথে সঠিক এবং প্রাসঙ্গিক।	দু-একটি তথ্যগত ভুল বাদে অধিকাংশ তথ্যই সঠিক এবং বিষয়ের সাথে সঙ্গতিপূর্ণ।	বিষয় অনুযায়ী কিছু তথ্য কিন্তু তিনটির বেশি ত্রুটি পাওয়া গেছে।	ব্যবহৃত নিবন্ধগুলির বিষয়বস্তু স্পষ্ট নয়।
শৈল্পিক ক্ষমতা এবং ছবি সংগ্রহ	প্রজেক্টের থিমকে কার্যকরভাবে বোঝাতে রং, সাজসজ্জা এবং ছবির ভালো ব্যবহার।	প্রকল্পের থিমের কার্যকরী প্রকাশের জন্য রঙ এবং ছবির কিছু ব্যবহার।	প্রকল্পের থিমের কার্যকরী প্রকাশের জন্য রঙ, সজ্জা এবং ফটোগ্রাফের ন্যূনতম ব্যবহার।	প্রজেক্টের থিমের কার্যকরী প্রকাশের জন্য রং, সাজসজ্জা এবং ছবির ভালো ব্যবহার করা হয়নি।
ভাষার ব্যবহার	উপস্থাপনায় বাক্য-বিন্যাস, বানান এবং বিরাম চিহ্নে কোনো ত্রুটি থাকা উচিত নয়। সহজ ও বোধগম্য ভাষার যথাযথ ব্যবহার।	উপস্থাপনায় বাক্য-বিন্যাস, বানান এবং বিরাম চিহ্নের কয়েকটি ত্রুটি রয়েছে।	উপস্থাপনায় বাক্য গঠন, বানান এবং বিরাম চিহ্নের ত্রুটির কারণে ভাষার উপযুক্ততার অভাব।	উপস্থাপনায় বাক্য গঠন, বানান এবং বিরাম চিহ্নের ত্রুটির কারণে বিষয় অনুযায়ী ভাষা ব্যবহার করতে না পারা।
নির্দেশিকা/সময়ানুবর্তিতা অনুসরণ করুন	নির্দেশিকাগুলি কঠোরভাবে মেনে চলা এবং সময়মতো কাজ শেষ করা।	বেশিরভাগ নির্দেশনা অনুসরণ করা এবং সময়মতো কাজ শেষ করা।	খুব কম নির্দেশনা অনুসরণ করে এবং অতিরিক্ত সময় নিয়ে কাজটি সম্পন্ন করা হয়।	নির্দেশিকা অনুসরণ এবং সময়মতো কাজ সম্পূর্ণ করতে ব্যর্থতা।
সামগ্রিক উপস্থাপনা	প্রকল্পের সামগ্রিক ছাপ প্রশংসনীয় এবং আকর্ষণীয়।	প্রকল্পের সামগ্রিক প্রভাব মনোযোগ আকর্ষণ করার জন্য যথেষ্ট।	প্রকল্পের সামগ্রিক উপস্থাপনা আকর্ষণীয় করার জন্য সামান্য প্রচেষ্টা করা হয়েছিল।	শিক্ষার্থী সার্বিক উপস্থাপনাকে আকর্ষণীয় করে তোলার কোনো চেষ্টাই করেনি।

**MATHEMATICS****CLASS – III****F.M. 20****WASTE MANAGEMENT****LEARNING OBJECTIVES**

Through this project, students will be able to:

- Understand the terms in 3Rs in a better way.
  - Gain knowledge about the term- waste management
  - Revise the concept of mental ability and basic operations
  - apply their creativity and imagination to complete their art work
  - Reuse of waste materials to make a maze
  - develop critical, logical thinking and problem-solving skills
- 

Materials needed for each group-

- a) chart paper – one (white in colour)
- b) colour pencils, stationery
- c) a cardboard cut into a circle with diameter 20 cm
- d) ice cream sticks / straws (15 pieces),
- e) a carton of size 20 cm x 30 cm approximately

Waste management is all the activities and action required to manage waste till its final disposal. This includes collection, transport, treatment and disposal of waste together with monitoring and regulation. Before knowing about the waste management let us understand the term waste in a better manner.

Waste is defined as unwanted and unusable materials and is regarded as a substance which is of no use. Waste that we see in our surroundings is also known as garbage. Waste mainly includes the following-

**Domestic Waste**

The different household wastes which are collected during household activities like cooking, cleaning, etc. are known as domestic wastes.

**Example:** leaves, vegetable peels etc.

**Commercial Waste**

Commercial wastes are produced in schools, colleges, shops, and offices.

**Example:** plastic, paper, wrappers etc.

**Industrial Waste**

These are the wastes created in factories and industries. Most industries dump their wastes in rivers and seas which cause a lot of pollution.

**Example:** plastic, glass etc.

### **Agricultural Waste**

Various wastes produced in the agricultural field are known as agricultural wastes.

**Example:** cattle waste, weed, husk etc.

### **Types of Waste**

Commonly waste is classified into two types:

#### **Biodegradable waste**

These are the wastes that come from our kitchen and it includes food remains, garden waste, etc. It is also known as moist waste. This can be composted to obtain manure. Biodegradable wastes decompose themselves over a period of time depending on the material.

#### **Non-biodegradable waste**

These are the wastes which include old newspapers, broken glass pieces, plastics, etc. It is known as dry waste. Dry wastes can be recycled and can be reused. Non-biodegradable wastes do not decompose by themselves and hence are major pollutants.

#### **Activity 1-**

- a) Information about the quantity of different types of waste thrown by a family will be given. Children will solve the sums given to identify the same.
- b) Using the above details children will make a pie chart.

The waste disposal in the improper way has direct effect on our health, growth of the country and degradation of the environment that leads to pollution causing adverse effects. So we must act wisely to make the earth pollution free by following the 5Rs rule of zero waste.

#### **Activity 2-**

Children will solve the given sums for each blank and then decode to find the answers.

#### **Activity 3-**

Children will make an activity maze using ice cream sticks / straws and a carton of size 20 cm x 30 cm approximately.

### **Conclusion**

The '**Swachh Bharat Abhiyan**' was created to tackle these issues related to waste management, and it created awareness among the people about the proper treatment of solid waste. Since the launch of this campaign, the waste management concept has started to gain momentum.

#### **Learning outcome:**

At the end of the project, students should be able to solve sums on Mental Arithmetic and revise the basic operations and apply their critical thinking skills while learning about the project topic.

**MATHEMATICS PROJECT GRADING RUBRICS**  
**UNIT TEST 3**  
**Class III**

	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>Maths content</b>	Shows a clear knowledge and application of math skills.	Shows a general knowledge and application of math skills.	Shows a limited knowledge and application of math skills.	Shows little knowledge and application of math skills.	Shows no knowledge and application of math skills.
<b>Mental Ability and Decoding Accuracy</b>	Is able to solve all the sums correctly to decode and find the term given on the topic accurately.	Is able to solve all the sums correctly and decode but unable to find the term given on the topic accurately.	Is able to solve all the sums correctly but unable to decode and find the term given on the topic accurately.	Is able to solve most of the sums correctly, so unable to decode and find the term given on the topic accurately.	Is unable to solve the sums correctly so unable to decode and find the term given on the topic accurately.
<b>Art Integration</b>	The concept in the submission is exceptionally creative and well-integrated with art.	The concept in the submission is creative and well-integrated with art.	The concept in the submission is somewhat creative and integrated with art.	The concept in the submission shows little creativity and integration with art.	The concept in the submission lacks creativity and integration with art.
<b>Overall Presentation and Neatness</b>	The presentation is exceptionally attractive in terms of design, layout and neatness.	The presentation is acceptably attractive in terms of design, layout and neatness.	The presentation is somewhat attractive in terms of design, layout and neatness.	The presentation is little attractive in terms of design, layout and neatness.	The presentation is not attractive in terms of design, layout and neatness.

**SUBJECT - EVS****CLASS: III****FULL MARKS: 20****THEME: WASTE MANAGEMENT****LEARNING OBJECTIVES:**

After completing the project, the students will be able to –

- Learn about the importance of waste management
- Gain knowledge about dry and wet waste
- Learn about the importance of segregation of waste
- Experiential learning: Research and prepare a poster to spread awareness about segregation of dry and wet waste.
- Art integration: Make models of dry and wet waste bins.

Waste management encompasses the collection, transportation, processing, and disposal of waste. The rapid growth of populations and urbanization has led to an alarming increase in waste generation. Improper waste disposal contaminates water bodies, pollutes air, and harms ecosystems.



Effective waste management is crucial for maintaining a clean and healthy environment. The increase in production of waste poses significant challenges to communities worldwide, emphasizing the need for efficient waste management strategies. Segregation of dry and wet waste is a fundamental step towards achieving sustainable waste management.

**Importance of Waste Segregation**

Waste segregation is the separation of waste into distinct categories, primarily dry and wet waste. This classification facilitates efficient processing, recycling, and disposal.

Dry waste includes:

1. Plastics (bottles, bags, containers)
2. Paper and cardboard
3. Glass
4. Metal (cans, foil)

Wet waste includes:

1. Organic food waste
2. Fruit and vegetable peels
3. Garden waste
4. Liquid waste

**Benefits of Segregation**

Segregating dry and wet waste offers numerous advantages:



1. Recycling: Dry waste can be recycled, reducing landfill waste and conserving natural resources.
2. Composting: Wet waste can be converted into nutrient-rich compost, reducing waste sent to landfills.
3. Reduced Odour and Pests: Separating wet waste minimizes unpleasant odours and pest infestations.
4. Energy Generation: Organic waste can be converted into biogas, providing renewable energy.



It is essential to work together to promote awareness, develop infrastructure and enforce policies supporting sustainable waste management.

### **WHAT YOU NEED TO DO:**

**The students will be divided into groups. Each group needs to do the following:**

Imagine that you are the members of the waste management club of your society and you have taken up the responsibility to spread awareness about effective waste management in your locality.

- Each group will make a model of a dry waste bin and wet waste bin. The bins should be colour coded and labelled properly. The bins should be made using small cartons or cardboard boxes.
- Use the information and links provided to do a research work on segregation of dry and wet waste.
- Prepare a poster based on your research work to spread awareness. Use half a chart paper (coloured). Your poster should contain the following:
  - A suitable slogan on segregation of dry and wet waste.
  - Three benefits of segregating dry and wet waste.
  - Stick or draw relevant pictures. (at least 5)

### **LEARNING OUTCOME:**

At the end of the project, the students -

- Should be able to learn about the importance of waste management
- Should be able to gain knowledge about dry and wet waste
- Should be able to learn about the importance of segregation of waste
- Should be able to research and prepare a poster to spread awareness about segregation of dry and wet waste.
- Should be able to make models of dry and wet waste bins.

### **LINK:**

- <https://www.shaktiplasticinds.com/dry-waste-and-wet-waste-management-waste-segregation/>

## RUBRICS

## EVS 3 – OPEN BOOK PROJECT – UT 3 (2024-2025)

	4	3	2	1
<b>Content</b> - Accuracy and understanding of the theme	Demonstrates a clear understanding of the theme. The content is concise and accurate.	Demonstrates an adequate understanding of the theme. The content is adequately concise and accurate.	Demonstrates limited understanding of the theme. The content is somewhat accurate.	Demonstrates no understanding of the theme. The content lacks accuracy.
<b>Creativity and Originality</b> - Art integration	The submission reflects originality and is exceptionally creative and well-integrated with Art.	The submission reflects originality to some extent and is adequately creative and integrated with Art.	The submission is somewhat creative and displays little integration with Art. Shows little originality.	The submission lacks creativity and integration with Art. Originality is lacking.
<b>Research Work</b> – Use of technology and media (links provided)	Accessed suggested media and employed technology exceptionally for research work.	Accessed suggested media and employed technology adequately for research work.	Suggested media was somewhat accessed. Research work was inadequate.	Suggested media was not accessed at all. Research work is lacking.
<b>Guidelines followed</b> - Collaboration and Contribution	Guidelines have been strictly followed. Every member has contributed effectively. The group displayed excellent collaboration.	Most of the instructions have been followed. Most of the members have contributed effectively. The group displayed good collaboration.	Followed very few guidelines. Very few members have contributed. The group displayed inadequate collaboration.	Guidelines have not been followed. Only one or two members contributed. There was lack of collaboration.
<b>Overall Presentation</b> – Layout of the project and oral presentation	Presentation includes relevant pictures/drawings to support the content. The presentation is exceptionally attractive and appealing in terms of design, layout and neatness.	Graphics used in the presentation support the content to some extent. The presentation is quite attractive in terms of design, layout and neatness.	Graphics are somewhat related to the content. Some attempt has been made to make the presentation somewhat attractive.	Graphics are not related to the content at all. Little or no effort has been made to make the presentation attractive.

## TOPIC:

Learning Objectives

- To aware students about reducing e-waste and its impact on the environment.
- To demonstrate creativity by repurposing e-waste materials into functional objects.
- Recognize and classify input and output devices and making model/dangler using waste
- To make them participate in hands-on activities.

**Introduction**

In a town called GreenVille, kids loved playing with old gadgets like CDs and computers. But soon, piles of broken gadgets made the town messy. One day, a wise turtle named Tiko visited and taught the kids about e-waste.

Tiko said, "Instead of throwing old gadgets away, let's reuse them!" He showed them how to make danglers using old CDs, with messages like "Save the Earth from E-Waste!" They also built 3D models of gadgets using waste materials.

The kids had fun, and GreenVille became clean again, learning the importance of reusing and recycling e-waste to protect the earth.

Use e-waste items such as CDs, DVDs, and other safe, discarded electronics for the project.

**General Instructions:**

- Each group has to complete both the activities explained below.
- Ensure the materials used are safe and non-hazardous. Bring all required material for the project like colours, glue, fabriano paper, waste materials, decorative item
- The project must be neatly labelled with your name, class and Section. Ensure both the activities are completed and presented together.
- After completing your project, clean up your workspace and properly dispose off any leftover materials properly.



## To Do:-

### Activity 1: Dangler Creation Using E-Waste (CD/DVD)

1. Use old CDs or DVDs to create a dangler.
2. Write a caption on e-waste management on the CD.
3. Decorate the CD with beads, ribbons, or any other decorative items.
4. Use string or thread to hang your dangler.

Activity 2: Make a 3D Model of a part of computer device using waste materials.  
Make your model as per your group no.

Group 1: Monitor (Write one guideline about e waste)

Group 2: Input Device (Keyboard)

Group 3: Input Device (Mouse)

Group 4: Output Device (Printer)

Group 5: CPU

1. Gather waste materials like cardboard, bottle caps or paper.
2. Use the materials to construct a 3D model of the selected device.
3. Paint and colour your model to make it look more realistic.

## Learning Outcome

Students were able to

- Understand the importance of reducing e-waste.
- Develop creative skills by repurposing materials.
- Learn about input and output devices through hands-on activity.

## Resources:-

<https://www.youtube.com/watch?v=D1Rs4GIhahQ&list=PLIHgnfmI5e03i-btsSFd5k0TkZo63mueX>

[https://www.youtube.com/watch?v=e07STGD1E\\_w](https://www.youtube.com/watch?v=e07STGD1E_w)

<https://www.youtube.com/watch?v=Uo2j8lrPhNM>

<https://www.wbpcb.gov.in/e-waste-management>

## Marking Rubrics:-

Criteria	2.5	1.5	1
Creative use of waste materials	Very creative and unique ideas presented and well executed	Some creative elements but common ideas	Lacks creativity and effort
Neatness & Presentation	Exceptionally neat and well-organized	Somewhat neat presentation	Untidy presentation

Understanding of the Topic	Demonstrates thorough understanding of e-waste and computer parts	Basic understanding with some misconceptions	Little to no understanding of the topic
Team Effort & Engagement	Outstanding effort, fully engaged in both activities	Engagement and effort somewhat satisfactory	Little to no effort, disengaged from both activities