

# WASTE

## Subject

Basic Science

## Prepared By

[Instructor Name]

## Grade Level

4

## Overview

This lesson plan covers teaching content for;

1. Types of waste
2. Waste disposal

## Objectives

Students should be able to;

1. Identify types of waste.
2. Identify and discuss proper ways of disposing waste.
3. Identify and discuss effect of bad waste disposal.

## Activity Starter/Instruction

- 1 Display pictures of waste to students.
- 2 Ask student to choose a partner.
- 3 Tell them to discuss and jot down the things each of them throw away at home as waste (Food leftover, nylon, vegetables, papers, metal spoons, broken bottles, etc.).
- 4 Write the students responses after their discussion on the board.
- 5 Examine the list and explain to the students the most dangerous and least dangerous waste product if piled in the house or classroom for a month. Identifying things that can spoil/rot, rust, break and tear.

## Guided Practice

### Day 2/ Lesson 2: 15 Mins

1. Have students brainstorm on what will happen if we pile wastes and don't dispose them. (Block roads, sickness, block drainage, stagnant water, etc.)
2. Tell students that solid waste such as papers, nylon, metal spoons, etc can be thrown into the dustbin or refuse dump while liquid waste which comes in form of liquid can't be thrown in the dustbin.

## Teacher Guide

### Day 1/ Lesson 1: 15 Mins

1. Ask student what is waste? (Explain to students that waste (or wastes) are unwanted or unusable materials and are harmful to everyone if not disposed properly).
2. Make a list of things usually disposed at homes such as: Papers, metal spoons, broken bottle, Leftover food, water after washing plates, water after washing clothes, water from washing fish or meat, spoilt juice, etc.).
3. Explain that the list of waste mentioned are of two types: Solid waste and Liquid waste.
4. Tell student to fill up the table below and distribute in each column the type of waste mentioned in the list.

Solid waste	Liquid waste

## Materials Required

- Pictures of waste
- Bin bag
- Disposable gloves

## Additional Resources

- <https://www.scribd.com/document/293162-Waste-Management>
- <https://www.teachervision.com/waste-free->
- <http://devondonahueid.weebly.com/grad-waste-and-our-world.html>
- <https://www.waikatoregion.govt.nz/services-for-schools/resources-for-teachers/classroom-activities/waste-not-wa-activities/>

## Additional Notes

3. Ask students why some waste are thrown in the bin and others in the sink.
4. Explain to them that liquid waste such as sewage have to be treated before they are disposed in the sea.

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### Guided Practice

#### Day 3/ Lesson 3: 15 Min

1. Explain that students will be collecting litter at school. Ask the students to guess what items of litter they may find at school. For example, the students may expect to find only wrappers and aluminum cans.
2. Record and save their ideas on the board so they can compare their predictions to what they actually collected
3. Tell the students that after they collect litter, they will categorize and compare the items collected.
4. After picking litters in school. Have them sort out the waste wearing gloves. Things that can decay are thrown to the school farmland to fertilize the soil, things that can burn are taken out and burnt, things that can't burn are taken to landfill (fill up valleys, pits).
5. Ask students to come up with other ideas on how to dispose refuse properly. Examples: not put garbage into the lakes and streams, pick up litter and dispose them into the refuse bin, do not throw dirt into the gutter).

### Assessment Activity

Assess if pupils can:

1. Define waste.
2. List the types of waste.

### Assessment Activity

Assess if pupils can:

1. Know the effect of piling waste.
2. Explain how waste can be disposed properly.

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### Summary

1. Ask for volunteers to share what they understand about waste, its effect and how to dispose it.
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