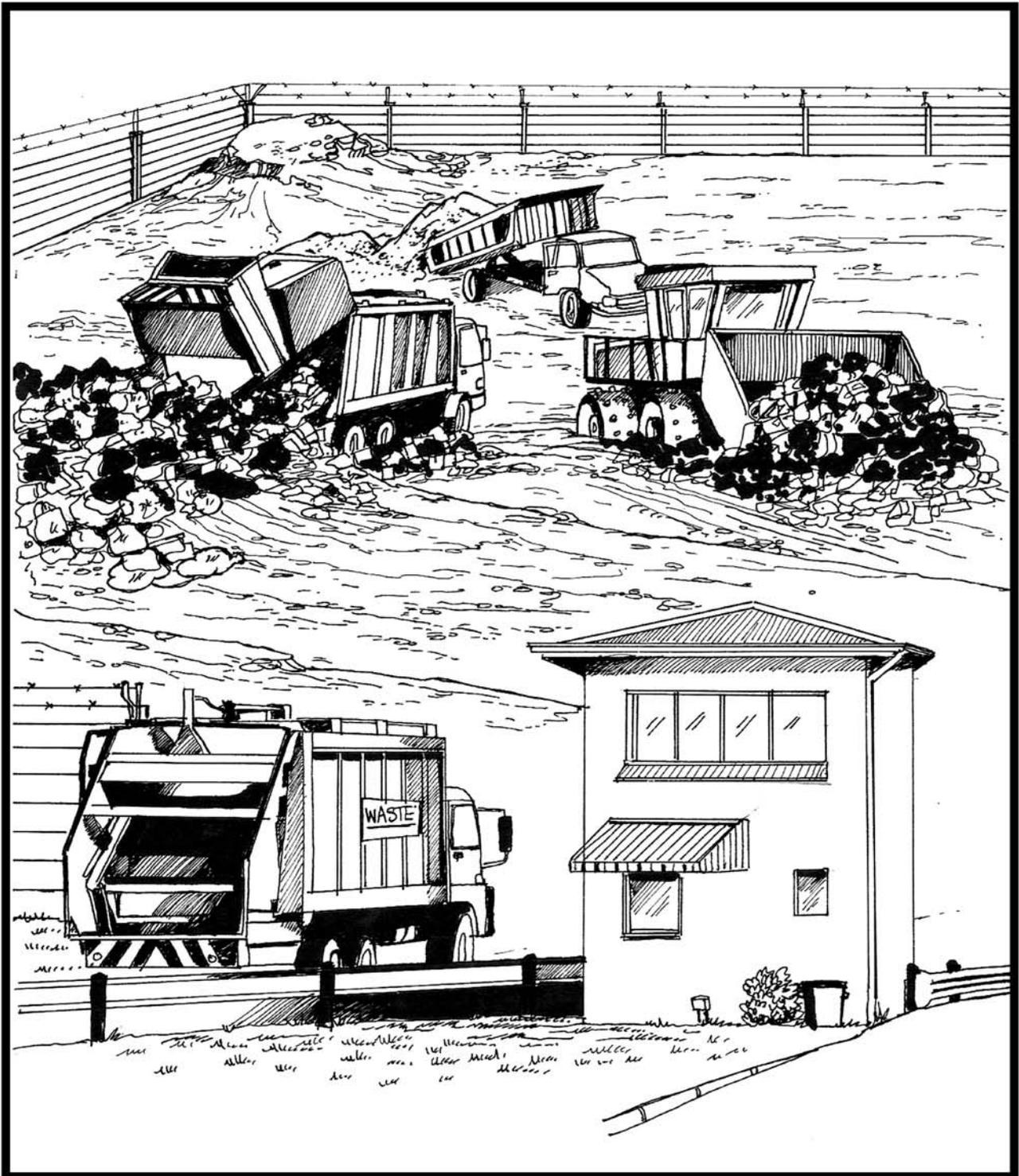


Waste disposal- landfill



WASTE DISPOSAL - LANDFILL

LEARNING AREA: Technology

LEARNING OUTCOME 2: Technological knowledge and understanding

Understand and apply relevant technological knowledge ethically and responsibly.

LEARNING OUTCOME 3: Technology, society and the environment

Demonstrate an understanding of the interrelationships between science, technology, society and the environment

Integrate with other Learning Areas:

Learning Area	Learning Outcome	Description
Natural sciences	1: Scientific investigations	Act confidently on curiosity about natural phenomena, and investigate relationships and solve problems in scientific, technological and environmental contexts
Life Orientation	1: Health Promotion	Make informed decisions regarding personal, community and environmental health.
Social Sciences	3: Exploring Issues	Make informed decisions about social and environmental issues and problems.
Language	2: Speaking	Communicate confidently and effectively in spoken language in a wide range of situations.

ACTIVITIES

(E = Educator L = Learner)

E	Landfill (place where waste is buried) Make your own landfill with the class. Discuss reasons for each step.
L	Line a large cardboard box with plastic (to prevent pollution of ground water). Place a layer of sand in the bottom, then a layer of waste items and press down (compact to save space). Cover with light layer of sand (to reduce smells, flies, litter and health risks) and press down. Sprinkle with water (to prevent dust).
E	Discuss: What to consider when siting a landfill in a town - close to source of waste but not so close that it causes a nuisance, (e.g., noisy trucks), far from water, enough soil available to cover waste every day, far from residential area.
E	Discuss: Need to manage and monitor landfill (to prevent pollution of air, soil and water; smells; flies; windblown litter; and to ensure waste is correctly handled).
L	Discuss: Best place on the school grounds to place a landfill and give reasons. Draw a diagram with suggestions on how to beautify a landfill area once it is full.
E	Ask your municipality if your class can follow the waste collection route from pick up by trucks to disposal at landfill. Arrange the outing with a guide provided.
L	Draw up a survey form to include the questions: problems with collecting waste, size and age of site, number of trucks offloading daily, amount of waste offloaded weekly, appearance of the site, charge for disposal, dangerous waste.
E	Discuss the outcomes of the survey with the class.
E	Incineration or burning Discuss: Another way of getting rid of waste is by burning it.
E	Discuss: Disadvantages: expensive equipment, causes air pollution, bad smells.

