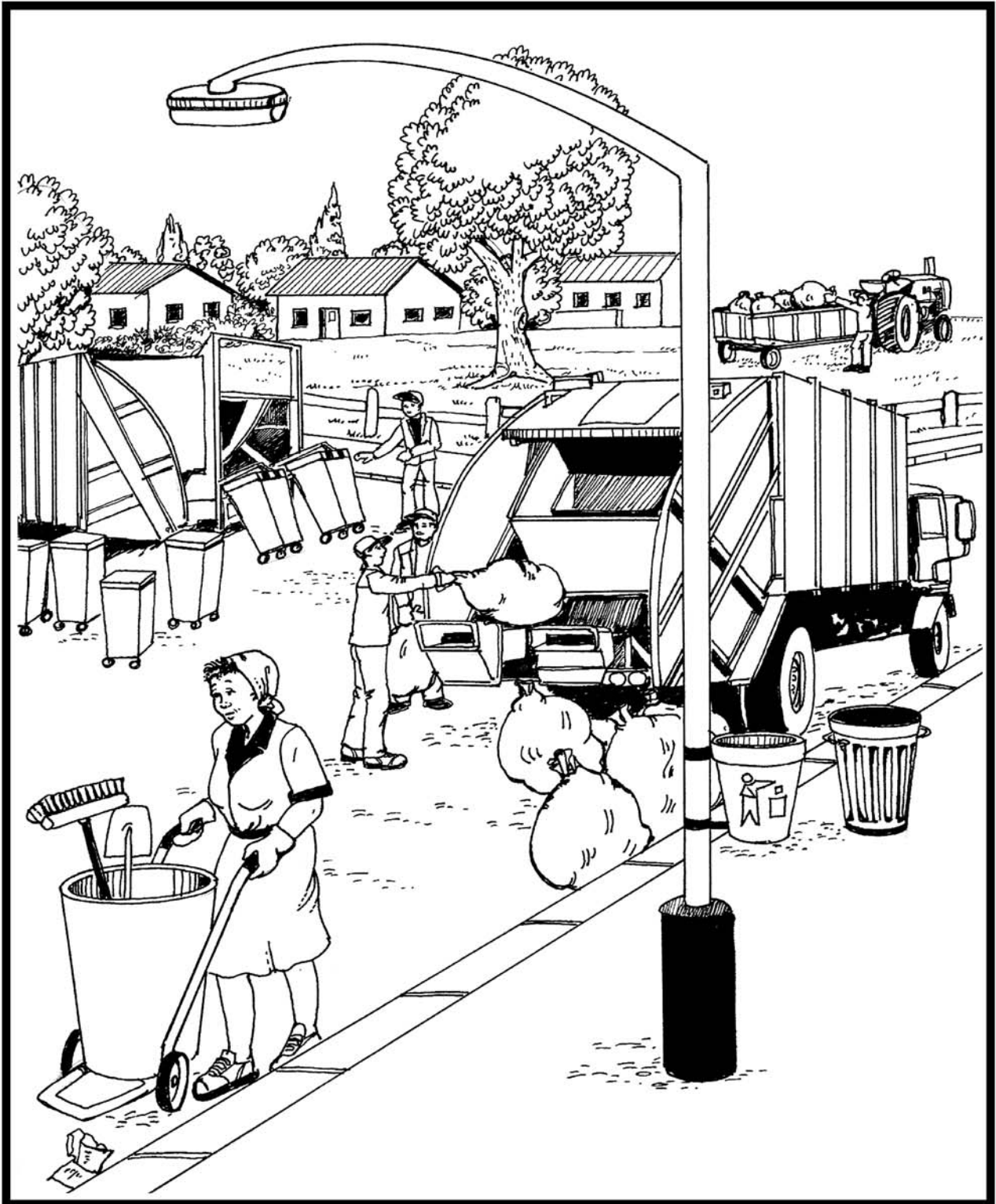


Waste collection- households



WASTE COLLECTION 1

LEARNING AREA: Technology

LEARNING OUTCOME 2: Technological Knowledge and Understanding

The learner will be able to 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
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.
Arts & Culture	1: Creating, interpreting and presenting	Create, interpret and present work in each of the art forms
Language	2: Speaking	Communicate confidently and effectively in spoken language in a wide range of situations.
Mathematics	1: Numbers, operations and relationships	Recognise, describe and represent numbers and their relationships, and count, estimate, calculate and check with competence and confidence in solving problems.

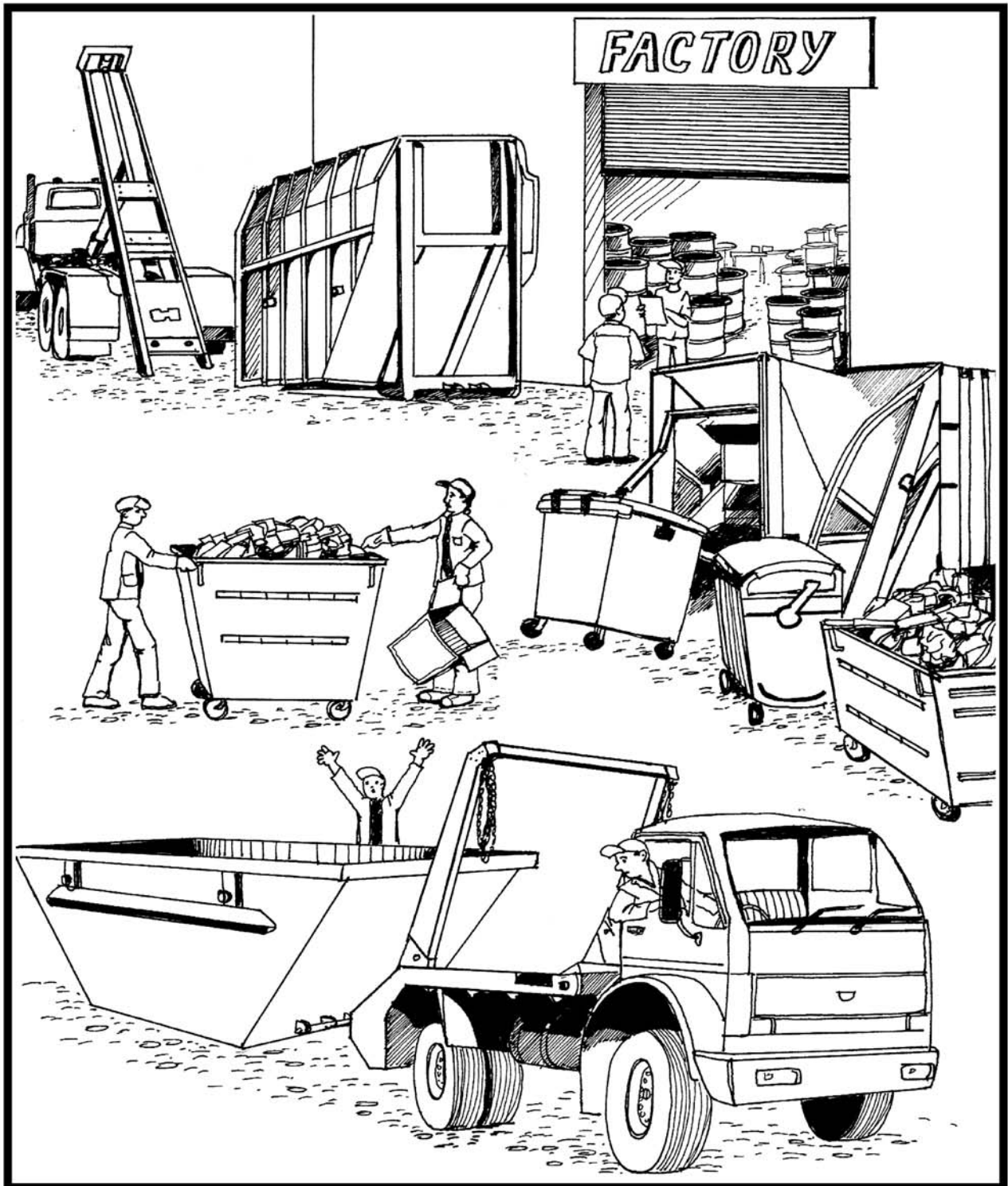
ACTIVITIES

(E = Educator L = Learner)

E	<p>Waste collection</p> <p>Discuss: How local municipality collects and disposes of waste: Households: dustbins - collected by workers - emptied into truck - truck takes it to landfill, or bin liners placed in truck and taken to landfill. Commerce and industry: containers loaded on to trucks and taken to landfill.</p>
L	Find out how much you pay at home to have waste collected and report back.
L	Write to local municipality to find out about: <ul style="list-style-type: none"> ● different kinds of dustbins, bin liners and trucks (pictures if possible) ● composition of municipal waste ● address of landfill site <p>Ask for someone to visit the school to talk about waste collection and disposal.</p>
E	Post the best letter.
L	Look for pictures or draw different types of waste found at school. Make a collage, sorting the pictures according to size, weight, volume. Discuss ways of reducing each type of waste.
L	Interview the person who collects and puts out waste in the school. Draw up a list of questions: How often is waste cleared up or bins emptied? How long does it take? Where is it stored for collection by the municipality? When is it collected? How many bags or bins are put out each week? How can we make his job easier? Discuss the findings of the interview with the class.



Waste collection- COMMERCE & INDUSTRY



WASTE COLLECTION 2

ACTIVITIES

(E = Educator L = Learner)

<p>L</p> <p>L</p>	<p>Waste collection (cont.)</p> <p>Act out homeowner putting out bag or dustbin, a refuse truck arriving at a house, workers jumping off, picking up dustbin or bag, emptying it into the back of the truck and returning the empty dustbin or mobile bin.</p> <p>Make a set of cards for a snap game. Draw two pictures of each of the different types of bins and trucks. Use the same cards for a 'match' game - match containers to trucks.</p>
<p>E</p> <p>L</p>	<p>Compaction</p> <p>Discuss: Compaction - the need to squash things so that they take up less space on the truck, so that fewer trips are needed and the waste takes up less space on the landfill.</p> <p>Measure the length, depth and height of a cardboard box and calculate the volume. Flatten the box to take up less space. Measure reduced space taken up.</p>
<p>E</p>	<p>Industrial and agricultural (farming) waste</p> <p>Discuss examples of waste from factories, (old machines, chemicals, scrap metal, plastic) mines, (crushed rock, chemicals) farming activities, (animal wastes, fertilizer runoff, pesticides, crop residues).</p>
<p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>L</p> <p>E</p>	<p>Hazardous (dangerous) waste</p> <p>Discuss: Hazardous waste, e.g., batteries, paint, pesticides, insecticides, bleach, medicines, household cleaners, cleaners for windows, drains and ovens.</p> <p>Discuss: Danger - drinking, burning skin, and breathing in fumes.</p> <p>Discuss: How can pesticides or insecticides be harmful? (pollute water which people, insects and animals drink, insects eat sprayed leaves, birds eat poisoned insects, etc).</p> <p>Discuss: Make your own insecticide for the school garden rather than buy hazardous product.</p> <p>Find plants being attacked by pests in the school garden. Mix 2 tablespoons of dishwashing liquid with 2 cups of water and spray on leaves.</p> <p>Explain: Hazardous waste goes to a separate special hazardous waste landfill.</p>

