

ARE YOU READY TO RECYCLE?

EDUCATOR'S GUIDE

1. PURPOSE

We need to handle our waste correctly to minimise its effect on the environment. When waste harms our environment, it harms all of us as well.

This programme aims to educate the intermediate phase learner about:

- how to handle our waste correctly
- how to avoid creating unnecessary waste
- how to reduce waste already created (reduce, re-use, recycle)

The learner will be able to make informed choices about waste, and thereby:

- reduce the amount of litter lying around on the streets and veld
- reduce the harmful effect of waste that is not handled correctly
- reduce the amount of waste that needs to be disposed of

2. FORMAT

The programme consists of:

2.1 [An Educator's Guide](#)

2.2 A full colour A4 [Poster](#) for classroom use representing the life cycle of a product

2.3 **Lesson Guides** for each topic. Each lesson guide consists of an A4 illustration and an A4 page of activities as follows.:

- TAKE (raw materials from the environment)
- MAKE (products)
- BUY (products)
- USE AND RE-USE (products)
- RECYCLE (resulting in fewer raw materials required from the environment)
- THROW AWAY (waste products)

3. LINKS TO NATIONAL CURRICULUM

The programme targets the Intermediate Phase Grades 4-6

The Lesson Guides consist of activities based on learning outcomes for specific Learning Areas as set out in the Department of Education's Revised National Curriculum Statement Grades R-9 (Schools). The Education Programme will assist learners and educators to meet the requirements of the curriculum. The programme consists of activities only and does not include assessment guidelines.



4. LEARNING OUTCOMES

At the end of the programme, learners will be able to:

- 4.1 make informed decisions regarding personal, community and environmental health, in order to minimise the impact of their behaviour on the environment
- 4.2 demonstrate an understanding of the interrelationships between science and technology, society and the environment.
- 4.3 identify and solve waste management problems and make decisions using critical and creative thinking
- 4.4 work effectively with others to identify and address waste management issues
- 4.5 collect, analyse, organise and critically evaluate information about waste management issues
- 4.6 communicate effectively about waste management, using visual, language, mathematical and creative skills
- 4.7 use entrepreneurial knowledge, skills and attitudes to implement a recycling programme

5. STRUCTURE

Phase - Intermediate Phase Grades 4-6

Activities with learning outcomes are integrated within and between the following Learning Areas:

- Languages
- Mathematics
- Natural Sciences
- Social Sciences
- Arts and Culture
- Life Orientation
- Economic and Management Sciences
- Technology

At the end of the programme, learners will be able to make informed decisions in order to minimise the impact of their behaviour on the environment.

6. POSTER AND LESSON GUIDES

The A4 poster represents the life cycle of a product.

Each Lesson Guide consists of:

- An A4 illustration
- The Learning Area
- Relevant Learning Outcomes
- Possibilities to integrate with other Learning Areas
- Activities

The Lesson Guides are for the educator's use.

E = Educator activity. L = Learner activity.

Make copies of the pictures and give them to the learners.

If practical, cover all the activities and in the order in which they are given in the Lesson Guide. Add your own activities if you wish.

7. PREPARATION

Study the order in which the Lesson Guides are to be handled, as shown in item 8 below.

Study each Lesson Guide well in advance:

- Do you understand all the activities?
- Do you understand all the new words?
- Do you have all the things you need?



8. IMPLEMENTATION SEQUENCE

Use the Lesson Guides in the following sequence:

RESOURCES

<u>STEEL CANS</u>	<u>GLASS</u>	<u>PAPER</u>	<u>PLASTICS</u>	<u>e-WASTE</u>
Take	Take	Take	Take	Take
Make	Make	Make	Make	Make
Buy	Buy	Buy	Buy	Buy
Use and Re-use	Use and Re-use	Use and Re-use	Use and Re-use	Use and Re-use

USEFUL VS WASTE

RECYCLING

<u>STEEL CANS</u>	<u>GLASS</u>	<u>PAPER</u>	<u>PLASTICS</u>	<u>e-WASTE</u>
Recycle	Recycle	Recycle	Recycle	Recycle

THROW AWAY

WASTE IN THE RIGHT PLACE -THE WASTE STREAM	WASTE IN THE WRONG PLACE - LITTER
Waste Collection 1 and 2 Waste Disposal	Waste in the wrong place - litter Litter Survey Upgrade and beautify



USEFUL ADDRESSES

ArcelorMittal (formerly Iscor) www.iscor.co.za	PO Box 2 Vanderbijlpark 1900
Aerosol Manufacturers' Association www.aerosol.co.za	P O Box 484 Olifantsfontein 1665
Aluminium Federation of SA www.afsa.org.za	P O Box 423 Isando 1600
Buyisa-e-Bag (plastic bags recycling) www.buyisaebag.co.za	PO Box 1284 Kempton Park 1619
Chamber of Mines of SA www.bullion.org.za	P O Box 61809 Marshalltown 2107
Collect-a-Can www.collectacan.co.za	P O Box 30500 Kyalami 1684
Consol Glass www.consol.co.za	P O Box 562 Germiston 1400
Department of Water Affairs and Forestry www.dwaf.gov.za	Private Bag X313 Pretoria 0001
Department of Environmental Affairs and Tourism www.environment.gov.za	Private Bag X447 Pretoria 0001
Dell www.dell.co.za	PO Box 71170, Bryanston, Johannesburg, 2021
e-Waste Association of South Africa www.ewasa.org	Suite 304 Granada Square, 116 Chartwell Drive, Umhlanga Rocks, 4320
Environmental Education Association of SA www.eeasa.org.za	P O Box 394 Howick 3290
Expanded Polystyrene Association of SA www.epsasa.co.za	1st Floor, Block E, Conference Park, 234 Alexandra Avenue Midrand
Extrupet (PET recycling) www.extrupet.com	PO Box 14112 Wadeville 1422
Food Gardens Foundation - Index www.foodgardensfoundation.org.za	P O Box 41250 Craighall 2024
Fujitsu Siemens Computers www.fujitsu-siemens.co.za	Private Bag X75 Halfway House 1685
The Glass Recycling Company www.theglassrecyclingcompany.co.za	P O Box 623 Paulshof 2056
Hewlett Packard www.hp.co.za	Private Bag 9997 Sandton 2146
Institute of Waste Management (IWMSA) www.iwmsa.co.za	P O Box 79 Allen's Nek 1737
Mondi Recycling www.paperpickup.co.za	PO Box 83566 South Hills 2136
Nampak Recycling www.nampak.co.za	Private Bag X85 Bryanston 2021
Nampak Wiegand Glass www.nampak.co.za	Private Bag 1 Leondale 1421
National Recycling Forum www.recycling.co.za	P O Box 79 Allen's Nek 1737
Nokia South Africa www.nokia.com	Postnet Suite 460, Private Bag X43, Sunninghill 2157
Packaging Council www.pacsa.co.za	PO Box 131400 Bryanston 2021
Paper Recycling Association of SA www.prasa.co.za	PO Box 1553 Rivonia 2128
PET Recycling Company (Pty) Ltd www.petco.co.za	PO Box 680 Constantia 7848
Pick 'n Pay www.picknpay.co.za	PO Box 23087 Claremont 7735
Plastics Federation of South Africa www.plasfed.co.za	Private Bag X68 Halfway House 1685
Reclite www.reclite.co.za	P O Box 21223 Helderkruijn 1733
ROSE Foundation (oil recycling) www.rosefoundation.org.za	Suite 9 A, Waverley Court, 1 Kotzee Rd, Mowbray 7700
SA Polyester Recyclers (Pty) Ltd (PET) www.sapetrecyclers.com	PO Box 14112 Wadeville 1422
SA Tyre Recycling Process Company www.rubbersa.com	P O Box 1370 Ferndale 2160
Sappi Waste Paper www.sappi.com	P O Box 32706 Braamfontein 2017
Trees for Africa	P O Box 2035 Gallo Manor 2052
UniRoss www.uniross.co.za	Unit 63 Capital Hill Commercial Estate Cnr. K101 & Le Roux Ave, Midrand
Wildlife & Environment Society of SA www.wessa.org.za	P O Box 394 Howick 3290



REFERENCES

Department of Education. Revised National Curriculum Statement Grades R-9 (Schools). Languages. Mathematics. Natural Sciences. Social Sciences. Arts and Culture. Life Orientation. Economic and Management Sciences. Technology. Pretoria (2002)

Environmental Education Curriculum Initiative. Enabling Environmental Education in the Outcomes Based Curriculum Framework: an initial guidelines document. 1996

Waste in Place. Keep America Beautiful Inc. Stamford CT. USA. 1990

Packaging and Education (details unknown)

Keep South Africa Beautiful Education Series. People and Litter. Department of National Health and Population Development. Pretoria. 1990

ARE YOU READY TO RECYCLE?

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