

# 10.0 Waste Not Educational Resources



**Fun for Kids**

## 10.1 Why this theme?

Theme 9 examined the methods that Corby Waste Not has used to make environmental education fun. Many other organisations have documented similar methods, and there is now a wealth of educational resources available to help increase the environmental awareness of pupils.

This theme provides details of a selection of environmental education resources.

## 10.2 What we did

Projectworker Ruth Clayton collected a selection of environmental education resource packs and produced a waste management resource library for schools in Corby Volunteer Bureau. Ruth visited 14 schools and used the library to help over 1900 children and teachers learn about waste (also see section 9.2.1). Section 10.3 details a selection of the educational resource packs and provides details of how they can be obtained.

## 10.3 National examples

The resources below are listed in alphabetical order of the environmental programme or organisation.

### 10.3.1 Alupro - Aluminium Packaging Recycling Organisation Limited

The UK Aluminium Packaging Recycling Organisation (Alupro) is responsible for encouraging and developing recycling collection initiatives, for consumer education, and for representing the aluminium packaging industry to government. Alupro is a not-for-profit company, limited by guarantee, sponsored by the leading can sheet and foil rollers, and foil converters, supplying the UK market.

#### Primary schools

A special resource pack, which provides curriculum opportunities for 7 to 11 year-olds in science, English and design and technology, is available to teachers in UK primary schools. Topics covered in The Material World: Investigating Aluminium Packaging include:

- materials in the home and in the environment
- the basic states of matter
- variation and classification
- properties of materials
- the extraction and use of aluminium
- packaging materials and the importance of recycling

The pack provides work cards, fully integrated teachers'



notes and posters to stimulate children's interest in recycling and the environment.

### Secondary school/college projects

Students of all ages should find the information they need to complete their educational projects on the website at [www.alupro.org.uk](http://www.alupro.org.uk).

## 10.3.2 Anglian Water

The Anglian Water website, [www.anglianwater.co.uk/schools/shockmenu.htm](http://www.anglianwater.co.uk/schools/shockmenu.htm), introduces young people to the fascinating and sometimes complex world of water.

### Primary schools

When in the website, you can access activities, puzzles and information pages for primary age children by clicking on the 5-11 years button. Two cartoon characters, Splash and H2O, help children find out more water through activities and worksheets. There is also the Water Game. You click on the dice to move across the board. If you land on a rain cloud, you will go to the previous rain cloud. If you land on a sunshine square, you will go to the next sunshine square.



### Secondary school/college projects

A click on the 8-14 years button provides more advanced activities.

## 10.3.3 Council for Environmental Education



The Council for Environmental Education (CEE) is a national charity, founded in 1968, which is governed by its members - 80 national organisations with a shared belief in the value of education for sustainable development. The CEE provides a national focus in England for those committed to education for sustainable development.

The website at [www.cee.org.uk](http://www.cee.org.uk) is a gateway for Education for Sustainable Development. The section on resources to Education for Sustainable Development gives details of educational resources and sources of funding (grants, competitions and awards) to support education for sustainable development.

## 10.3.4 The Eco-Schools Program



Eco-Schools is a project run by the Tidy Britain Group on behalf of Going for Green, a Government backed campaign that encourages everyone to adopt a lifestyle which will improve and preserve the environment.

Eco-Schools is much more than an environmental management system for schools. It is a programme for promoting environmental awareness in a way that links to many curriculum subjects, including citizenship, personal, social and health education (PSHE) and education for sustainable development. It is also an award scheme that will raise the profile of your school in the wider community.

The Eco-Schools process is holistic. It works by involving the whole school (pupils, teachers, non-teaching staff and governors) together with members of the local community (parents, the local authority, the media and local businesses). It will encourage teamwork and help to create a shared understanding of what it takes to run a school in a way that respects and enhances the environment.

Eco-Schools offers schools:

- an opportunity to make environmental issues a part of the life of the school
- an opportunity to help develop young people's decision-making skills
- curriculum materials and ideas for projects and events
- access to a network of support agencies
- links with other schools in the UK and Europe
- a prestigious award
- opportunities for local and national publicity
- potential for financial savings

It requires:

- the support of the head teacher and governors
- a willingness to involve pupils in decision-making and action at every stage
- active involvement of staff and the wider school community
- a willingness to make longer-term changes

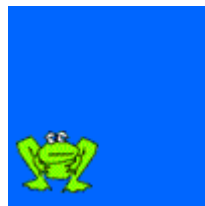
Additionally, the website at [www.eco-schools.org.uk/html/kids/kids\\_index.html](http://www.eco-schools.org.uk/html/kids/kids_index.html) has a kids' zone that has games and activities covering more key environmental themes and targeted at pupils of a range of different age groups.

### 10.3.5 Environment Agency

The Environment Agency website at [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk) has a children's zone which includes :



Fun screensavers to download



Fun and interactive games



Cartoons to help find out about our impacts on the environment



Pressure Point, which looks at how the environment is being affected by our activities



K-Zone animations

## 10.3.6 The Green Code Programme for Schools



Going For Green runs the Green Code Programme for Schools. The Programme encourages young people to look both at how their lifestyle affects the environment and how to make small changes to improve it. The website at [www.greencode.org.uk](http://www.greencode.org.uk) offers free CD ROMs, computer software and games to schools.

### 10.3.6.1 CD-ROMs

#### 10.3.6.1.1 Disc 1 – Infant/Lower Primary

The Infant disc is set in the home and garden of the Green family. The Greens are an average family - they try to look after the environment and act sensibly, but they don't always know the best way to achieve this. The emphasis on the disc is discovery and experimentation. The programme will encourage pupils to think about their lifestyle and environment within the context of the Green Code themes.



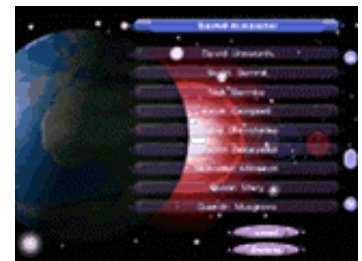
The children's pets, Kevin the cat, Molly the dog and Jaws the fish, are very confused about the way the Greens look after their environment. The children's task is to show the pets exactly what is the best way to achieve the aims of the Green Code.

The disc opens with an introduction to the Green Family and their home. There are five areas of the house and garden visible on screen and pupils can visit any one. Each location contains a story and two computer-based activities that will introduce pupils to one of the points of the Green Code, apart from the garden location, which covers both Preventing Pollution and Looking After the Local Environment. These then provide a selection of activity sheets that can be used away from the computer.

Throughout the stories, words that appear in bold type are featured in the National Literacy Strategy Frequently Used Word List for years 1 and 2.

#### 10.3.6.1.2 Disc 2 – Junior/Upper Primary

In the junior disc the focus is on examining sustainable development issues within the local community. The spacecraft *Destiny* is on a mission from a friendly alien civilisation to research the environmental issues that affect other planets. On board the craft are two computers ERIC and ROVER who are trying to make sense of events on earth. ERIC (Environmental Research Intelligence Computer) is leading the mission. ROVER is a research robot who is rather bemused by what he finds on Earth. Emma and Joe Green, along with a third figure representing the pupil, are beamed on board to act as Earth Ambassadors who will to assist with the mission. Pupils can log in individually for their missions so that their progress can be saved. Their role is to help ROVER make sense of the locations, which he visits.



In order to assist the computers on the spacecraft, pupils will be able to view areas of the town using the ship's map console. From here ROVER can be dispatched on fifteen

missions based on different map locations. He sends back live video images and takes part in a humorous dialogue with ERIC and the earth ambassadors.

At each location Rover collects a sample object from Earth. This unlocks an activity, which is either computer based or involves research work away from the computer. The activities are designed to encourage the exploration of issues through research and experimentation.

### 10.3.6.1.3 Disc 3 - Secondary

In the future sealed domes house the population. Scientists are determined to try to return the Earth to a better state through a series of time travel missions. Two young scientists Jen and Lee have been selected to undertake what is called the 'Origin Mission'.

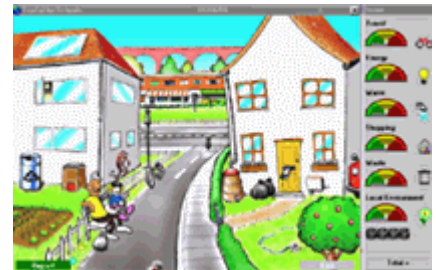


The time travel missions are the main stimulus material for the pupils. Here, through a series of lively drama sequences, they are exposed to the issues of sustainable development via a landfill site, traffic problems, a factory demonstration, a rainforest and a wind farm. The main curriculum themes are Mathematics, English, Science and Geography. A comprehensive database enables them to use ICT skills to research topics. Activity sheets are also provided for each of the main curriculum themes.

The disc contains an extensive database from a variety of sources. These sources do not reflect the opinion of Going for Green, but provide an invaluable resource for both teachers and pupils.

### 10.3.6.2 Eco-Cal

Eco-Cal for Schools is designed to enable pupils to measure and learn how to reduce their environmental impact. The software uses the Green Family and their friends in humorous domestic settings. It is both easy to use and fun. It is aimed at the 9-14 age group. The sections within the programme reflecting the Green Code are energy, shopping, travel, waste, water and the garden and local environment.



Eco-Cal for Schools provides the opportunity for children to research their own lifestyle and that of their household. There are research activity sheets that can be used to investigate and record current behaviour in the home. This information is brought into school and entered into the programme. Eco-Cal will then provide them with a score for each of the sections and an overall score. The programme can be used to track an individual child's score over time and to compare scores between individuals.

Eco-Cal for Schools is based on the concept of ecological foot printing. This approach analyses the area of the earth's surface necessary to support the activities of an individual or household. It includes impacts of the use of resources and the wastes created as a result of consumption. It looks at a much broader range of factors than specialist software, which might concentrate on analysing an area such as energy use.

Whilst the programme is easy to use it is based on extensive research using the best available scientific data.

### 10.3.6.3 Green Village – the Sustainable Development Game

Green Village is an interactive simulation of life in a village which faces a variety of environmental problems. It is aimed at the 7-13 age group and links to Maths, Science, English and Geography are incorporated.

Green Village changes like a real village, so the choices you make throughout the game will have a direct effect on how pleasant or unpleasant the village is for the people that live there. The game is set in the small village of Crudley. You play as a member of the Green family who has only recently moved to the village.



Players take turns to answer questions. If the player answers the question correctly and in time the time limit, he/she will see a positive physical change in the village. The character too will demonstrate his/her delight. Of course, should the player answer the question incorrectly or fail to answer at all the village will deteriorate.

Decision making is an essential aspect of the game. More attention to one area will come at the expense of the progress of another. The game will further develop in response to the changing village. For example, as Crudley improves more people will wish to live there and they will bring with them a new range of environmental problems.

Success or failure in Green Village is determined at the end of one calendar year, the progress of which is visible on screen at all times, by the player or team with the highest overall green score. The teacher can choose questions that are subject specific, age specific, Quick Game to the unlimited Full Game in which all questions are accessed across all age ranges. The environmental categories in Green Village are: waste, pollution, transport, energy, and nature.

### 10.3.7 Ollie Recycles



Ollie Recycles offers a range of teaching and learning opportunities that help teachers deliver the curriculum at Key Stage 2. It supports the values, aims and purposes underpinning the school curriculum.

The CD-ROM programme uses the adventures of Ollie and his friends to encourage pupils to think about ways they can reduce, re-use and recycle waste material from school and home. With the support of leading organisations, every primary school in the United Kingdom will receive a free copy of this program.

The Ollie Recycles Website at [www.ollierecycles.com](http://www.ollierecycles.com) is an extension of the CD-ROM programme, with further information and activities for students to extend their knowledge in the area. The objective of the website is to keep the topic interesting and stimulating for the children whilst at the same time informing them about important environmental issues. Pupils can post their school work on the website or enter a competition where they can win prizes for themselves or their schools. If you have any questions you can even write to Ollie.

There is also a section of lesson ideas to show how the Ollie Recycles Programme can be used to help teaching and learning. If you require any further assistance, Groundwork has

offices in more than 40 areas around England, Wales and Northern Ireland and have expert staff available to help schools get started with a comprehensive 3Rs projects. They have a wealth of knowledge about a range of resources and initiatives and can help schools with a multitude of waste and recycling projects linked to many important curricula targets. For more information about Groundwork, visit [www.groundwork.org.uk](http://www.groundwork.org.uk).

### 10.3.8 SCRIB - Steel Can Recycling Information Bureau

**SCRIB** The SCRIB website at [www.scrib.org](http://www.scrib.org) offers a variety of educational resources for school children and teachers.

#### Primary Schools

In the Can is a booklet aimed at younger age groups between 8 and 14. It provides a wealth of information in a fun, easy to use way. It is full of quizzes and things to do, as well as interesting facts and information about steel recycling.

Make a Steel Can Happy is a fun and exciting VHS video for 8 to 14 year olds about steel can recycling, from consumer can disposal through the recycling process to a new steel product - from a car to a can to a bike. A factual but fun presentation, the video lasts approximately 10 minutes and is accompanied by supporting teachers' notes.

#### Secondary Schools

Steel Cans and Our Environment is aimed at older children and teachers and provides a wealth of detailed information about steel and recycling. The video shows the volume of steel cans used each year and how these can be recycled. The 12 minute long film is both informative and thought provoking, raising issues of recycling economically, as well as for the environment.

Steel Cans: The Recycling Facts is a booklet that explores a wide range of facts about steel recycling in a useful and informative way.

#### Teachers

Recycling Matters is an educational pack designed for use at Key Stages 2 and 3 of the National Curriculum in England and Wales, and the 5-14 Curriculum in Scotland. It consists of five cards which can be used as a starting point for a project or to support existing work. The cards are useful for whole class work but also for small groups and individuals. The material is cross-curricular and covers a number of curriculum areas as shown below, looking in particular at Mathematics, Science, Geography and Design and Technology. The tables provide useful support activities and further ideas

### 10.3.9 Waste Watch



The Waste Watch website at [www.wastewatch.org.uk](http://www.wastewatch.org.uk) has a large collection of activities and resources for young people of all ages.

#### The Dustbin Pack

This pack is aimed at children age 7 to 11 years. The ten work cards provide easy-to-use activities. The focus of this pack is on English, Maths, Science, and Design and

Technology.



#### Wise up to Waste

A cross-curricular activity pack about the current problems of waste, its creation and disposal. Students, ages 15-18, use their art and science skills to investigate the best environmental options open to society today.



#### Work at Waste at School

Schools can save money and improve their environmental performance by Working at Waste at School - using a new guide which illustrates the educational and environmental benefits of schools reducing, reusing and recycling their waste



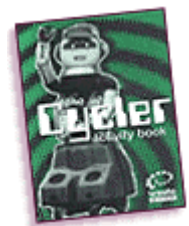
#### Schools Waste Action Club

Schools Waste Action Club is Waste Watch's innovative education project that offers practical advice and help on waste reduction and recycling initiatives within schools. Schools Waste Action Club is currently available in Essex, Norfolk, Bexley, North Yorkshire, Lincolnshire, Nottinghamshire and Cheshire.

#### Cycler the Recycling Robot



is a 'state of the art' robot who dances, raps and chats to children aged between 5 and 11 on issues related to waste, Cycler is aided by three School Outreach Workers. The Cycler show is free, for more information phone 02072 536266 (also see 9.3).



#### Kids Home Page

This page is full of wacky waste facts and activities, including tips on how to make a worm compost bin.

### 10.3.10 Local Authority environmental resource packs

Most County Councils offer free educational environmental resource packs to schools in their county. Wave Goodbye Waste! is the Essex County Council pack, and Waste Busting in Schools is produced by Hampshire County Council as part of the War on Waste campaign. The website at [www.oultwood.com/index.html](http://www.oultwood.com/index.html) lists Local Authority contacts.

## 10.4 It's over to you...



### 10.4.1 Aims

To use existing educational materials to help increase the environmental awareness of young people.

### 10.4.2 Actions

Look through the resource details in section 10.3 and decide which ones you want to use. Order or book any deliverable resources, or use the online versions. Alternatively, other schools, Children's Resource Centres or your local Volunteer Bureau may be willing to lend you educational resources. When you have finished with any resource packs, consider donating them to another educational organisation.

## 10.5 Summary

There is a wide variety of free, high quality educational resources available to increase the environmental awareness of pupils. There are resources available that cover most aspects of waste minimisation, many of which are interactive and fun. Most resources are available through the Internet.

## 10.6 Troubleshooting

***I don't know which packs to order!***

**Be careful not to get too much information. It is better to go for one educational resource pack and cover it thoroughly than to order lots and not use them**

***How will the materials fit into the curriculum?***

**Most packs include a section on how to integrate the resources into the National Curriculum**

## 10.7 Contacts

### 10.7.1 Resources mentioned in section 10.3

Alupro - Aluminium Packaging Recycling Organisation Limited

[www.alupro.org.uk](http://www.alupro.org.uk)

Anglian Water  
[www.anglianwater.co.uk/schools/shockmenu.htm](http://www.anglianwater.co.uk/schools/shockmenu.htm)

Council for Environmental Education  
[www.cee.org.uk](http://www.cee.org.uk)

Eco-Schools Programme  
Tidy Britain Group  
[www.eco-schools.org.uk](http://www.eco-schools.org.uk)

Environment Agency  
[www.environment-agency.gov.uk/](http://www.environment-agency.gov.uk/)

Green Code Programme  
Going For Green  
[www.greencode.org.uk](http://www.greencode.org.uk)

Groundwork UK (Ollie Recycles)  
[www.ollierecycles.com](http://www.ollierecycles.com)   [www.groundwork.org.uk](http://www.groundwork.org.uk)

Steel Can Recycling Information Bureau  
[www.scrib.org](http://www.scrib.org)

Waste Watch  
Cycler Show information line 02072 536266  
[www.wastewatch.org.uk](http://www.wastewatch.org.uk)

## 10.7.2 Other resources

Are you Doing Your Bit? Campaign  
Department of the Environment, Food and Rural Affairs (DEFRA)  
[www.defra.gov.uk](http://www.defra.gov.uk)   [www.doingyourbit.org.uk](http://www.doingyourbit.org.uk)   [www.useitagain.org.uk](http://www.useitagain.org.uk)

Barclays New Futures  
[www.community.barclays.co.uk/newfutures](http://www.community.barclays.co.uk/newfutures)

BBC  
[www.bbc.co.uk/nature/earth](http://www.bbc.co.uk/nature/earth)

Cash for Cans  
0845 7227722

Environmental Information Service  
01603 871048

Friends of the Earth  
[www.foe.co.uk](http://www.foe.co.uk)

## 10.7.3 Other useful contacts

Corby Borough Council  
[www.corby.gov.uk](http://www.corby.gov.uk)

 Local Government




Corby Volunteer Bureau  
01536 267873


Index of Local Government  
[www.oultwood.com/index.html](http://www.oultwood.com/index.html)

Local Government Information Unit  
[www.lgiu.org.uk](http://www.lgiu.org.uk)



Northamptonshire Children's Resource  
Centre  
[www.ncrc.org.uk](http://www.ncrc.org.uk)

 Charitable & Voluntary Organisations

 Charitable & Voluntary Organisations