Introduction
The Ollie Saves the Planet CD ROM and Website Program is an interactive environmental education initiative that encourages children, their parents, teachers, and community groups to appreciate their connection to the natural world and to understand their own impact on the environment. The Ollie Saves the Planet Program introduces the concept of sustainability and asks users to consider ways they can reduce, reuse, recycle and rethink their actions in the areas of waste, water, energy, air and biodiversity. It does this within the context of local conditions and the local school curriculum.

Educationalists, industry representatives and experts in multimedia in Australia developed the Ollie Program, utilising the latest in interactive technology to create a learning tool for children between the ages of 8 – 14 years that is exciting, challenging and up-to-date with environmental information.

It has been developed using best practice guidelines in creating environmental education resources and offers a range of teaching and learning opportunities that support the curriculum at Years 4-8.

CD ROM
The Ollie Saves the Planet CD ROM has been developed to be used as a resource within the classroom, as a tool in community education programs and as a stand-alone edutainment program to be used at home.

There are 15 sections which can all be accessed from the Main Menu. The user can either navigate through the activities, games and info-screens at their own pace or be directed by educators to take a specific path for a particular subject area.

Website
The Ollie Saves the Planet Website is aimed at educators, students and their parents. Like the CD ROM its goal is to educate the community to consider ways they can reduce, reuse, recycle and rethink their actions in the area of waste, water, energy, air and biodiversity to move towards a more sustainable future.

Units of Work
The units created to support the Ollie Saves the Planet Program supplement learning from the CD ROM and provide a curriculum structure for teachers to plan classes based on the Program content.

The units are integrated with the activities found on the Ollie Saves the Planet CD ROM and Website.
Process of Learning

The units are designed on the enquiry learning process and incorporate a range of forms - including analysis, problem solving, discovery and creative activities - both in the classroom and in the community. Throughout the units, students are initially presented with relevant background data to enable them to explore a local issue. The investigation of a local issue encourages students to process the data they are working with in order to reach their own conclusions.

Problem solving provides students with an opportunity to practice the skills needed to find solutions to the local issues that concern them. This helps to develop the important citizenship objectives of learning for a sustainable future and integrates skills - for both students and teachers - of using experiential and enquiry-based strategies.

The units will fit into a number of teaching styles, enabling teachers with access to only two or three computers to have all the students working on the unit simultaneously. (See below for further details on classroom set-ups). The units lend themselves to student directed learning and the role of the teacher in the units is to facilitate the learning process.

How To Use The Units

Each unit is structured in the following way:

Section A: Background Information

This section will provide background information for the unit. The information will allow teachers to plan and organise learning opportunities for their class and provide suggested ways to present the information in the unit. The Background Information is comprised of:

Part 1: Goals & Objectives
Part 2: Planning
Part 3: Links to Curriculum
Part 4: Preparation Checklist
Part 5: Assessment
Part 6: Locating information on the Ollie Saves the Planet CD ROM
Part 7: Resources and Links

Section B: Unit

Each unit is designed to promote enquiry-based learning and encourage students to change behavior to reduce their impact in that particular area. The units are designed so that:

1. Teachers lead Part 1: Introduction and Part 2: Scene Setters to provide students with the skills and knowledge to explore a local issue.
2. Having completed the Introduction teachers are encouraged to facilitate the learner centered processes provided in Part 3: Identifying a Local Issue through to Part 8: Reflection.

Each unit is comprised of:

Part 1: Introduction
Part 2: Scene Setters
Part 3: Identifying a Local Issue
Part 4: Investigate
Part 5: Vision
Part 6: What Can We Do?
Part 7: Lets Do It
Part 8: Reflection
Part 9: Additional Activities
Part 10: Appendix: Blooms Taxonomy/Multiple Intelligence Activity Grid

Alternative Classroom Set-ups

You are provided with a range of alternative ways to use this CD ROM, depending on how your school's computer resources are made available to students. If students can only access a small number of computers in another room away from the classroom - e.g. in a library - use a similar set-up to that suggested for the classroom in Alternative 3.

Alternative 1 – Most work completed within a computer room
One way to use Ollie Saves the Planet is to have the students complete only the activities on the CD ROM. The CD contains activities and projects for students to complete in each section. There are many info-screens to assist in research and some suggested websites to refer to. Teachers should consider completing the prior learning activities in Part 1: Introduction and Part 2: Scene Setters with the students before beginning a topic on the CD. Student’s learning experiences can be brought together at the end by doing the concluding activities in Part 8: Reflection.

Alternative 2 – Alternate between a computer room and classroom
Each unit provides many additional classroom activities that support the activities on the CD ROM. Book your students into the computer room to complete the CD activities. Use the additional activities in one of the following ways:
1. Select activities and have all students work together through these activities.
2. Set up activity stations with different activities around the classroom and have students progressively work through each activity.
3. Allow students to select a number of activities offered in each unit and assist them to set up and complete the activities.

Alternative 3 – Complete work in classroom with several permanent computers
Set up activity stations with different activities around the classroom and have students progressively work through each activity. The available computers become one of the activity stations. If more computer time is required to complete the projects, consider sending students to the library computers or completing the projects without using a computer. For some units you may like students to choose which activities they do.
Links to Curriculum

These units have been developed for teachers at Years 4-8 in Australia. Teachers may obviously need to modify or omit certain activities, depending on the age and ability of students, and the complexity required. Although they are based on the American school curriculum, the units are still suitable for educators in community groups or parents to use to facilitate learning in the area of the environment.

The units have been designed so they can be *integrated* into the existing curriculum rather than creating a new subject area. The units should be viewed and used as *interdisciplinary* in nature and therefore meet the needs of the following subject areas:

- Science
- Language Arts
- Maths
- Geography
- Social Science
- Information Technology
- Art
- Personal Development: group work and critical thinking.

Each unit will have a large language component and will set the scene for using the Ollie Saves the Planet CD ROM, working on the units, exploring the internet and designing web pages.

A range of additional activities will be included at the end of each unit. This section is a useful resource for teachers keen to explore the particular issue further or provide additional learning opportunities for the students.

Preparation Checklist

Use this checklist as a guide to ensure that the students’ involvement in actions to help the environment meet local regulations and all health and safety guidelines.

- Does the Principal need to be informed prior to the activity? What information may they require?
- Do local authorities, landowners, neighbours, etc need to be informed or to be part of the process?
- Is permission from parents required?
- Have all health and safety issues been addressed?
- Are the relevant health and safety issues fully understood by all students?
- Do students understand and comply with the school’s code of conduct?
- Do you need further advice in setting up the projects?
- Do you need to discuss any issues with a second educator?
Assessment

Each unit contains examples of where teachers can assess the students’ understanding and interpretation of the material being explored. A Blooms Taxonomy and Multiple Intelligence Activity Grid has been provided for each unit as a guide to the types of learning that aim to take place during each activity. This could be used as a guide to assessing the learning achieved by students throughout the unit.

Each unit provides suggested assessment pieces that take place throughout the learning process rather than at the end of the unit in the form a written test. Use these as an ongoing guide to gauge the students’ level of understanding and knowledge of the unit’s content.

### TABLE OF CONTENTS FOR ALL UNITS

<table>
<thead>
<tr>
<th>Name of Unit</th>
<th>Content Description</th>
<th>Activities it Contains</th>
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| Sustainability | Students will learn about the importance of sustainability and how population and resource issues are a part of their lives. | Introduction x 7 activities  
Scene setters x 8 activities  
Identify Issue x 5 activities  
Investigation x 5 activities  
Vision x 2 activities  
What Can We Do x 1 activity  
Additional activities x 10 |
| Waste (1) | Students will learn about the impact of waste and litter on their lives.  
Students will cover Reduce & Reuse issues. | Introduction x 8 activities  
Scene setters x 5 activities  
Identify Issue x 7 activities  
Investigation x 2 activities  
Vision x 1 activity  
What Can We Do x 3 activity  
Let’s Do It x 2 activities  
Additional activities x 5 |
| Waste (2) | Students will learn about the importance of waste management and the role that it plays in their lives.  
Students will cover Recycling & Compost issues. | Introduction x 8 activities  
Scene setters x 9 activities  
Identify Issue x 4 activities  
Investigation x 5 activities  
Vision x 1 activity  
What Can We Do x 1 activity  
Let’s Do It x 1 activity  
Additional activities x 4 |
| Water | Students will learn about the importance of water quality and the role that water plays in their lives.  
Students will cover water quality and water use issues. | Introduction x 2 activities  
Scene setters x 4 activities  
Identify Issue x 1 activities  
Investigation x 1 activity  
Vision x 1 activity  
What Can We Do x 1 activity |
<table>
<thead>
<tr>
<th>Units</th>
<th>Summary</th>
<th>Additional activities</th>
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<tbody>
<tr>
<td>Energy</td>
<td>Students will learn about the importance of energy and the role that it plays in their lives. Students will cover energy production and energy use issues.</td>
<td>Introduction x 4 activities Scene setters x 5 activities Identify Issue x 1 activities Investigation x 1 activity Vision x 1 activity What Can We Do x 1 activity Additional activities x 5</td>
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<tr>
<td>Air</td>
<td>Students will learn about the importance of air quality and the role it plays in their lives. Students will cover air quality and air pollution issues.</td>
<td>Introduction x 5 activities Scene setters x 4 activities Identify Issue x 1 activity Investigation x 1 activity Vision x 1 activity What Can We Do x 2 activity Additional activities x 5</td>
</tr>
<tr>
<td>Biodiversity</td>
<td>Students will learn about the importance of biodiversity and the role that it plays in their lives. Students will cover ecosystem, species and genetic biodiversity.</td>
<td>Introduction x 5 activities Scene setters x 4 activities Identify Issue x 7 activities Investigation x 1 activity Vision x 1 activity What Can We Do x 1 activity Additional activities x 4</td>
</tr>
</tbody>
</table>