

# GREEN INNOVATION AWARDS 2022

ENVIRONMENTAL CHANGE & MANAGEMENT  
STUDENT BOOKLET

Name/s: \_\_\_\_\_

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The Green Innovation Awards is a competition designed to challenge students to research and develop innovative solutions to a chosen environmental issue. To enter you need to develop a solution to a problem and make a five-minute video presenting your ideas. Students can work in groups or as a whole class to enter. Two awards of \$300 each are presented: Primary School and High School. ***This booklet outlines the process.***

## TERM 1

- REGISTER YOUR INTEREST **BEFORE APRIL 1ST**

## TERM 2

- WORK ON YOUR PROJECT USING THE RESOURCES PROVIDED
- SUBMIT A VIDEO ENTRY BY THE END OF TERM (**JUNE 23RD**)

## TERM 3

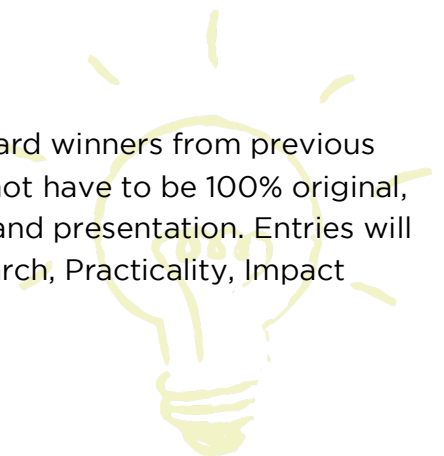
- IF YOUR CLASS GETS INTO THE FINALS, GO TO **SOUTHERN CROSS UNIVERSITY** TO PRESENT YOUR PROJECT TO A PANEL OF JUDGES









Areas that you can develop a solution for include:

- Agriculture / Sustainable land management
- Biofuels / renewable energy
- Green products / recycling in either building industry or packaging
- Water management
- Waste management



To get an idea about past projects, check out the finalists and award winners from previous years at [www.greeninnovationawards.com.au](http://www.greeninnovationawards.com.au) Your project does not have to be 100% original, just 100% your own work and show creativity in its development and presentation. Entries will be judged using the following criteria: Originality, Degree of research, Practicality, Impact potential, Student knowledge and presentation.



Step	Activities	Duration
 <p><b>IDENTIFY &amp; DEFINE</b></p>	<p>As a class brainstorm everything you already know about the five areas of interest:</p> <ul style="list-style-type: none"> <li>• Agriculture / sustainable land management</li> <li>• Biofuels / renewable energy</li> <li>• Green products &amp; recycling used in building or packaging</li> <li>• Water management</li> <li>• Waste management</li> </ul>	One lesson
 <p><b>IDENTIFY &amp; DEFINE</b></p>	<p>Use computers to research your choice of two of the topics above, identifying existing problems in these areas. Identify the environmental problem you are trying to solve. Who does this problem effect and how? Why is a solution needed?</p>	Two lessons
 <p><b>BRAINSTORM/ IDEATE</b></p>	<p>Brainstorm possible innovative solutions to your problem. Come up with as many ideas as you can – all team members must contribute. Discuss all the ideas and decide on which solution your team will develop.</p>	One lesson
 <p><b>DESIGN/PLAN</b></p>	<p>Research what has already been done to solve your problem. Plan out your solution – develop a timeline of activities, draw diagrams, perform research as needed to assist with your planning. Assign roles to group members. Make sure everyone has a meaningful role that they can achieve.</p>	Two lessons
 <p><b>PROTOTYPE /MAKE</b></p>	<p>Develop a prototype of your solution. The form of your prototype will depend on your solution:</p> <ul style="list-style-type: none"> <li>• Electronic solutions (app, website etc) may have a wire frame as a prototype.</li> <li>• Physical solutions may have a simple model.</li> </ul>	Changeable depending on the size /type and scope of project.
 <p><b>TEST</b></p>	<p>Test your prototype. This can be done in different ways:</p> <ul style="list-style-type: none"> <li>• For a model, test if it does what you want it to do.</li> <li>• Ask classmates for feedback about what works well and what needs to be improved.</li> <li>• Ask your teacher for feedback.</li> <li>• If you have a target audience, ask them for feedback.</li> </ul>	Changeable depending on the size /type and scope of project.
 <p><b>IMPROVE</b></p>	<p>Based on the feedback from the previous step, make improvements to your solution. Work your solution up into a more complex/complete prototype.</p>	Changeable depending on the size /type and scope of project.
 <p><b>COMMUNICATE &amp; SHARE</b></p>	<p>Share your solution with your class. Enter your solution in the Green Innovation Awards.</p>	One lesson

# Background Research

*As a class brainstorm everything you already know about the five areas of interest using the spaces below.*



AGRICULTURE/LAND  
MANAGEMENT



**BIOFUELS/  
RENEWABLES**



WATER  
MANAGEMENT



WASTE  
MANAGEMENT



GREEN  
PRODUCTS



*Use computers to research your choice of two of the topics above, identifying existing problems in these areas.*

**TOPIC 1:**

**Existing Problems Include:**

**TOPIC 2:**

**Existing Problems Include:**

*Now that you have done some background research for two different areas, choose one area to focus on for your project and answer the following questions.*



Our chosen area of research is

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Three of the most interesting problems that our research uncovered are

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

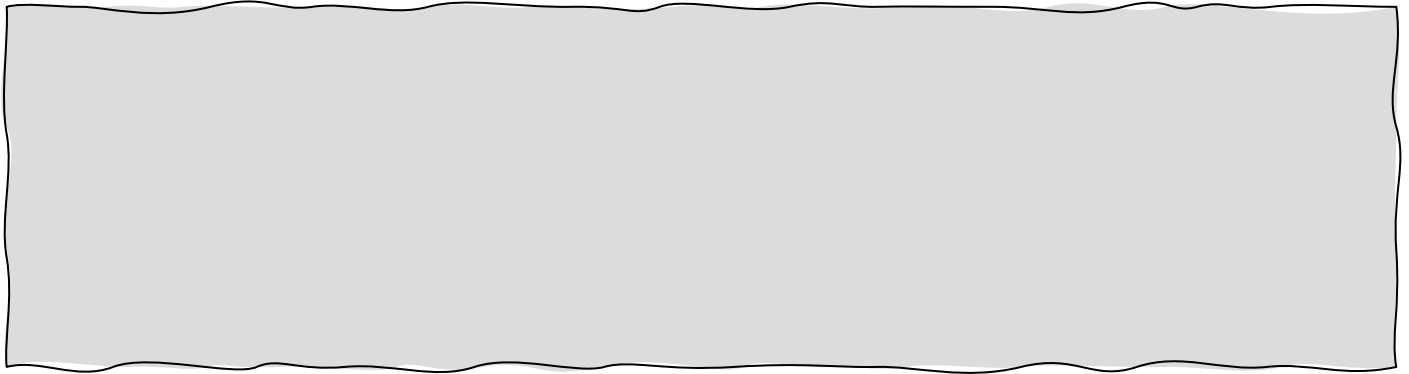
*For each of these three problems, brainstorm as many creative solutions as you can. Include ALL ideas. Use the spaces below.*

## POSSIBLE SOLUTIONS TO PROBLEM 1

## POSSIBLE SOLUTIONS TO PROBLEM 2

## POSSIBLE SOLUTIONS TO PROBLEM 3

***As a group, identify which solution would be the best for a Green Innovation Award project. Write your problem & solution in the box as a statement:***



Because groups will have many different ideas and processes, now you should complete your notes, research and planning in your own notebooks. Use the checklist below and tick off the tasks as you complete them. You do not always have to complete the tasks in the order shown. If at any time during the process, you change your mind about which topic, area or solution you wish to propose for the Innovation Awards, simply go back to your planning and brainstorming and choose another.

TASK	DONE
1. Go to <a href="https://www.greeninnovationawards.com.au/">https://www.greeninnovationawards.com.au/</a> to register your interest before April 1 <sup>st</sup> .	
2. As part of the registration process, connect with a mentor.	
3. Go back to the computers to gather ideas and to <b>research</b> what has already been done to solve the problem you have identified.	
4. Decide on how you will present your ideas for the Innovation Awards.	
5. Make sure everyone in the group has meaningful <b>roles</b> to play / tasks to complete.	
6. Develop a <b>timeline</b> to show how much time you have and what tasks you need to complete.	
7. Develop a <b>prototype</b> of your solution. A prototype is a simplified or shorter version of the final product. The form of your prototype will depend on your solution; electronic solutions (app, website etc) may have a wire frame as a prototype, whereas physical solutions may have a simple model. The idea here is to <b>FAIL EARLY</b> , so you can correct any problems now.	
8. Show your <b>prototype</b> to classmates or students in another class. Collect written or <b>verbal feedback</b> from them.	
9. Show your prototype to your <b>mentor</b> and get <b>feedback</b> . This should happen early to mid-Term two.	
10. Use all the feedback to <b>refine</b> your project. <b>Keep working</b> on your project until you have created your final presentation.	
11. Email your entry as a 5 minute video (MPEG, MP4 or AVI) before the 24 <sup>th</sup> of June (Week 10 Term 2) via Dropbox to <a href="mailto:info@greeninnovationawards.com.au">info@greeninnovationawards.com.au</a>	
12. Finalists will present their project to a panel of judges at the Southern Cross University in <b>Week 7 of Term 3</b> .	