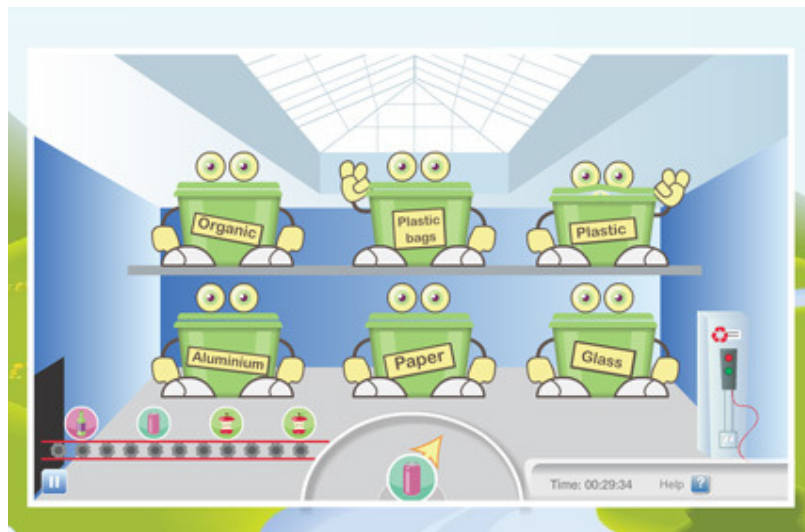




Notes for Teachers

To complement Clean Up the Murrumbidgee River / An Interactive Recycling Game for Primary School Students in ACT

The game



The game is a fun, interactive and curriculum-based educational resource in two stages. There are four versions of the game: one for Kindergarten; Years 1 and 2; Years 3 and 4; and Years 5 and 6. Each version of the game is contained on its own URL.

Section 1 involves the student choosing a character and a vessel and navigating the Murrumbidgee River, picking up rubbish and avoiding wildlife. As the student travels up the river, they will pass checkpoints. At each checkpoint, an information screen will pop up containing educational content. The student reads the information then continues. At the end of the river course, a quiz is generated based upon the information that the student has read.

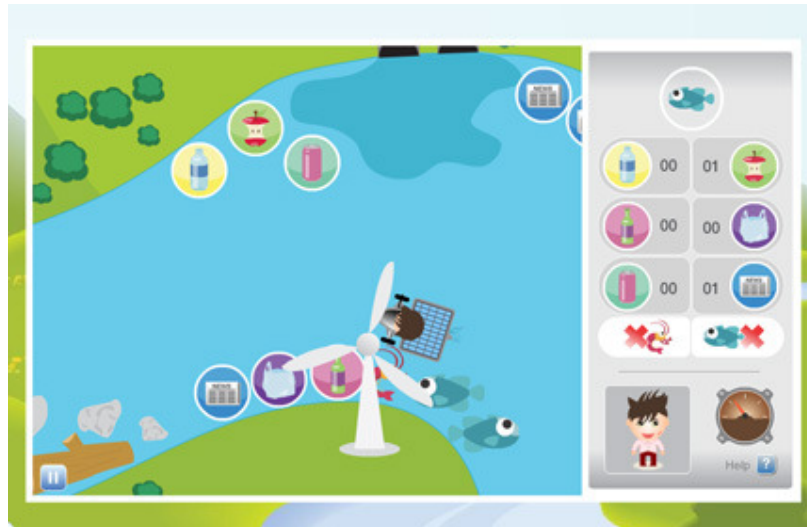
The questions are a mixture of multiple choice and true/false answers. The student must get each answer right before proceeding. At the end of the quiz, the student can see their score for section 1 of the game.

Section 2 zooms into the recycling plant adjacent to the river. The student sorts the rubbish that they collected into the appropriate bin for recycling. Information periodically pops up. At the end of this section, there is another quiz, after which the student can see their scores for both sections of the game, as well as their overall score.

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Suggested vocabulary to introduce before using the program

Kindergarten

recycle; true; false

Year 1 and 2

Aboriginal Dreaming; landfill; recycle; reuse; environment

Year 3 and 4

citrus; cereal; hollows; refusing; reusing; recycling; stormwater drains; landfill

Year 5 and 6

tributary; stormwater drains; deteriorates; water management; river corridor; endangered

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Essential Learning Achievements

Disciplinary Area	Overview Statement	Bands of development	
Interdisciplinary	1. The student uses a range of strategies to think and learn.	1.EC.6	
	6. The student uses information and communication technologies effectively.	6.EC.4 6.EC.5 6.EC.6 6.EC.8 6.EC.9 6.EC.10	6.LC.10 6.LC.11 6.LC.12 6.LC.14 6.LC.15 6.LC.16 6.LC.17
English	9. The student reads effectively.	9.EC.3 9.EC.4 9.EC.5 9.EC.6 9.EC.10 9.EC.11 9.EC.12 9.EC.13 9.EC.14	9.LC.1 9.LC.3 9.LC.5 9.LC.7 9.LC.9 9.LC.12 9.LC.13
Mathematics	18. The student recognises and represents patterns and relationships	18.EC.6 18.EC.7 18.EC.8 18.EC.13 18.EC.15 18.EC.16 18.EC.17 18.EC.18 18.EC.19 18.EC.20	18.LC.3 18.LC.8 18.LC.9 18.LC.10 18.LC.12
Science	19. The student understands and applies scientific knowledge	19.EC.1 19.EC.3 19.EC.4 19.EC.5 19.EC.6 19.EC.7 19.EC.9 19.EC.10 19.EC.11 19.EC.12 19.EC.13 19.EC.14	19.LC.1 19.LC.4 19.LC.5 19.LC.6 19.LC.7 19.LC.8 19.LC.9 19.LC.10 19.LC.11 19.LC.12 19.LC.13 19.LC.16
	20. The student acts for an environmentally sustainable future	20.EC.1 20.EC.2 20.EC.3	20.LC.1 20.LC.2 20.LC.3

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		20.EC.4 20.EC.5 20.EC.6 20.EC.7	20.LC.4 20.LC.5 20.LC.6 20.LC.9 20.LC.10
Social Science	21. The student understands about Australia and Australians	21.EC.1 21.EC.3 21.EC.4 21.EC.5 21.EC.6 21.EC.7 21.EC.10 21.EC.11	21.LC.1 21.LC.2 21.LC.3 21.LC.5 21.LC.10 21.LC.12
Technology	25. The student designs, makes and appraises using technology	25.EC.1 25.EC.2 25.EC.3	25.LC.2 25.LC.3 25.LC.8

**Draft national curriculum
English Content Descriptions**

Year Level	Language	Literacy
Kindergarten	3 Differing subject matter 4 Nature of texts 5 Concepts about print and screen 8 Phonic and word knowledge	1 Listening and responding 2 Purposes of texts 3 Sequencing 4 Reading Strategies 5 Comprehension strategies 6 Oral communication skills 9 Handwriting / word processing
Year 1	2 Speech functions 4 Basic sentence elements 7 Concepts about print and screen 11 Sight word knowledge	2 Reading strategies 3 Comprehension strategies
Year 2	5 Sentence grammar 8 Phonic and word knowledge 10 Vocabulary expansion 12 Concepts about print and screen 13 Punctuation	2 Reading strategies 3 Comprehension strategies
Year 3	4 Vocabulary expansion 5 Sentence grammar 12 Punctuation	4 Reading strategies 6 Comprehension strategies 12 Multimodal texts
Year 4	6 Vocabulary expansion 7 Grammar of simple sentences 8 Clause meaning 9 Tense 10 Conjunctions	4 Reading strategies 5 Vocabulary 7 Comprehension strategies 12 Multimodal texts

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Year 5	6 Compound sentences 7 Noun phrase and structure 9 Relating verbs 10 Adjectives 14 Visual grammar	
Year 6	5 Vocabulary expansion 7 Grammatical patterns 10 Adverbials 11 Cohesive devices 13 Sentence openers 14 Visual grammar	

**Draft national curriculum
Science Content Descriptions**

Year Level	Science Inquiry Skills	Science as a human endeavour	Science Understanding
Kindergarten	1 Questioning 2 Observing 3 Using equipment 4 Communicating	1 Nature of science	1 Living Things 2 The daily environment 3 Everyday materials 4 Movement
Year 1	1 Questioning and predicting 2 Investigation methods 3 Using equipment 4 Observing and measuring 5 Communicating 6 Using observations as evidence 7 Reflecting on methods	1 Nature of science 2 Everyday science 3 Science and Culture	1 Living things 2 Local Environment 3 Changing materials 4 Sounds
Year 2	1 Questioning and predicting 2 Investigation methods 3 Using equipment 4 Observing and measuring 5 Communicating 6 Using observations as evidence 7 Reflecting on methods	1 Nature of science 2 Everyday science Science and culture	1 Living and non-living 2 Growth and change 3 Earth's resources 4 Properties of materials 5 Pushes and pulls
Year 3	1 Questioning and predicting 5 Observing and measuring 6 Analysing results	1 Influence of science 2 Nature of science 3 Science in the	1 Structure and function of living things 2 Life cycles 4 Liquids and solids

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	8 Developing explanations 9 Reflecting on methods	community 4 Science and culture	
Year 4	1 Questioning and predicting 5 Observing and measuring 6 Analysing results 8 Developing explanations 9 Reflecting on methods	1 Influence of Science 2 Nature of Science 3 Science in the community 4 Science and culture	1 Grouping living things 2 Interactions of living things 4 Properties and uses of materials 5 Forces and motion
Year 5	6 Analysing results 7 Developing explanations 8 Communicating	1 Nature of Science 2 Influence of Science 3 Collaboration in Science 4 Contribution of scientists 5 Science and culture	1 Micro-organisms 3 Form and properties of materials
Year 6	6 Analysing results 7 Developing explanations 8 Communicating	1 Nature of Science 2 Influence of Science 3 Collaboration in science 4 Contribution of scientists 5 Science and culture	1 Relationship of living things 2 Using earth's resources 4 Changing and using materials 5 Sustainable energy transformations

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