WATER CONSERVATION Water is Important

PS Presentation Slide WS Student Worksheet A Activity G Game

				QUALITY CRITERIA		
SCIENCE		Insufficient evidence to demonstrate working towards the achievement standard	Working towards the achievement standard	Achieving and demonstrating the achievement standard	Working beyond the achievement standard	Extending with depth beyond the achievement standard
SCIENCE UNDERSTANDIN	IG: Science as a human en	deavour				
Scientific understandings, discoveries and inventions are used to inform personal and community decisions and to solve problems that directly affect people's lives (VCSSU073)	 considering how decisions are made to grow particular plants and crops depending on environmental conditions Optional Activity: WS 4 	Insufficient evidence	With guidance, discuss and consider why different crops or plants are grown to suit the environment.	Discuss and consider why different crops or plants are grown to suit the environment.	Confidently discuss and consider why different crops or plants are grown to suit the environment.	Confidently discuss and explain why different crops or plants are grown to suit the environment.
SCIENCE INQUIRY SKILLS: Planning and conducting						
With guidance, plan appropriate investigation types to answer questions or solve problems and use equipment, technologies and materials safely, identifying potential risks (VCSIS083)	experiencing a range of ways of investigating questions, including experimental testing, creating models, internet research, field observations, simulations and trial and error methods Optional Activity: WS 4	Insufficient evidence	With guidance, research online or observe in the field why different crops or plants are grown to suit the environment.	Research online or observe in the field why different crops or plants are grown to suit the environment.	Research online or observe in the field why different crops or plants are grown to suit the environment, and discuss findings.	Research online or observe in the field why different crops or plants are grown to suit the environment, and discuss findings using scientific language.
SCIENCE INQUIRY SKILLS: Recording and processing						
Construct and use a range of representations, including tables and graphs, to record, represent and describe observations, patterns or relationships in data (VCSISO85)	 using familiar units such as grams, seconds and metres and developing the use of standard multipliers such as kilometres and millimetres PS 4 WS 3, 9, 10 	Insufficient evidence	With assistance, use familiar units of measurement and apply to real-world situations.	Use familiar units of measurement and apply to real-world situations. Calculate volume and solve real-world problems using multiplication.	Use familiar units of measurement and apply to real-world situations. Accurately calculate volume and solve real-world problems using multiplication.	Use familiar units of measurement and apply to real-world situations. Accurately calculate volume and solve real-world problems using multiplication. Suggest other problems that could be solved this way.

		QUALITY CRITERIA				
MATHEMATICS		Insufficient evidence to demonstrate working towards the achievement standard	Working towards the achievement standard	Achieving and demonstrating the achievement standard	Working beyond the achievement standard	Extending with depth beyond the achievement standard
LEVEL 5: NUMBER						
Recognise that 100% represents the complete whole and use percentages to describe, represent and compare relative size; connect familiar percentages to their decimal and fraction equivalents (VC2M5N04)	 percentages (such as 30% and 70%) combine to make 100% WS 3 	Insufficient evidence	With assistance, use percentages to create a pie chart and understand percentages combine to make 100%.	Use percentages to create a pie chart and understand percentages combine to make 100%.	Confidently use percentages to create a pie chart and understand percentages combine to make 100%.	Confidently use percentages to create a pie chart and explain how percentages combine to make 100%.
Solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing efficient mental and written calculation strategies and using digital tools where appropriate; check the reasonableness of answers (VC2M5N06)	 solving multiplication problems such as 253 × 4 using a doubling strategy, for example, 2 × 253 = 506 and 2 × 506 = 1012 WS 5 	Insufficient evidence	With guidance, respond to a familiar situation and employ a mathematical strategy to solve a problem efficiently.	Respond to a familiar situation and employ a mathematical strategy to solve a problem efficiently.	Respond to a familiar situation and describe a mathematical strategy to confidently solve a problem efficiently.	Respond to a familiar situation and explain a mathematical strategy to confidently solve a problem efficiently.
	 solving multiplication problems like 15 × 16 by thinking of factors of both numbers, 15 = 3 × 5, 16 = 2 × 8, and rearranging the factors to make the calculation easier, 5 × 2 = 10, 3 × 8 = 24 and 10 × 24 = 240 WS 10 	Insufficient evidence	With assistance, use one- and two-digit numbers to solve worded multiplication problems.	Use one- and two-digit numbers to solve worded multiplication problems.	Confidently use one- and two- digit numbers to solve worded multiplication problems.	Confidently use one- and two- digit numbers to solve worded multiplication problems and describe any patterns in the numbers.
Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including simple financial planning contexts; formulate the problems, choosing operations and efficient mental and written calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation (VC2M5N09)	 modelling financial situations such as creating financial plans; for example, creating a budget for a class fundraising event, using a spreadsheet to tabulate data and perform calculations WS 5–11 	Insufficient evidence	With guidance, use mathematical modelling to solve a problem efficiently.	With guidance, use mathematical modelling to make informed decisions about how to solve a problem efficiently.	Use mathematical modelling to make informed decisions about how to solve a problem efficiently.	Use mathematical modelling to explain how to make informed decisions about how to solve a problem efficiently.
LEVEL 6: ALGEBRA						
Find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations (VC2M6A02)	- using brackets and the order of operations to write number sentences and appreciating the need for an agreed set of rules to complete multiple operations within the same number sentence; for example, for $40 + 2 \times (4 + 6) = \Box$, you solve what is in the brackets first then complete the number sentence from left to right as there is no hierarchy between division and multiplication WS 5-11	Insufficient evidence	With assistance, solve arithmetic problems involving all four operations with natural numbers and connect decimal representation to units of measurement.	Solve arithmetic problems involving all four operations with natural numbers and connect decimal representation to units of measurement.	Confidently solve arithmetic problems involving all four operations with natural numbers and connect decimal representation to units of measurement.	Confidently solve arithmetic problems involving all four operations with natural numbers and confidently connect decimal representation to units of measurement.



	QUALITY CRITERIA				
ECONOMICS AND BUSINESS	Insufficient evidence to demonstrate working towards the achievement standard	Working towards the achievement standard	Achieving and demonstrating the achievement standard	Working beyond the achievement standard	Extending with depth beyond the achievement standard
Resource allocation and making choices					
 Describe the difference between needs and wants and explain why choices need to be made PS 4–5 	Insufficient evidence	With guidance, identify water as a limited resource and describe the difference between sustainable water use and wasteful water use.	Identify water as a limited resource and describe the difference between sustainable water use and wasteful water use.	Identify water as a limited resource and explain the difference between sustainable water use and wasteful water use.	Identify water as a limited resource and explain , using scientific language, the difference between sustainable water use and wasteful water use.
 Explore the concept of opportunity cost and explain how it involves choices about the alternative use of limited resources and the need to consider trade-offs WS 5-10 	Insufficient evidence	With guidance, explore the cost of a family's water use, and describe its impact on the broader community.	Explore the cost of a family's water use, and describe its impact on the broader community.	Explore the cost of a family's water use, and describe its impact on the broader community. Identify the effects and potential consequences of these actions.	Evaluate the cost and benefits of a family's water use, and describe its impact on the broader community. Identify the effects and potential consequences of these actions.
 Identify types of resources (natural, human, capital) and explore the ways societies use them in order to satisfy the needs and wants of present and future generations PS 4–5 	Insufficient evidence	With guidance, identify water as a natural resource and describe the way we use it to satisfy the needs and wants of now and in the future.	Identify water as a natural resource and describe the way we use it to satisfy the needs and wants of now and in the future.	Identify water as a natural resource and describe why and how we use it to satisfy the needs and wants of now and in the future.	Identify water as a natural resource and explain why and how we use it to satisfy the needs and wants of now and in the future.
Consumer and financial literacy					
 Identify influences on consumer choices and explore strategies that can be used to help make informed personal consumer and financial choices WS 5–10 	Insufficient evidence	With guidance, identify ways government can influence our choices about using water. Describe ways we can make informed choices to reduce waste.	Identify ways government can influence our choices about using water. Describe ways we can make informed choices to reduce waste.	Confidently identify ways government can influence our choices about using water. Describe ways we can make informed choices to reduce waste.	Confidently identify ways government can influence our choices about using water. Explain ways we can make informed choices to reduce waste.
 Consider the effect that consumer and financial decisions of individuals may have on themselves, their family, the broader community and the natural, economic and business environment WS 5–10 	Insufficient evidence	With guidance, consider and begin to recognise the role of household appliances in conserving water and reducing waste.	Consider and recognise the role of household appliances in conserving water and reducing waste.	Consider and recognise the role of household appliances in conserving water and reducing waste, and can provide examples .	Consider and confidently recognise the role of household appliances in conserving water and reducing waste, and can provide further examples .

	QUALITY CRITERIA				
VISUAL ARTS	Insufficient evidence to demonstrate working towards the achievement standard	Working towards the achievement standard	Achieving and demonstrating the achievement standard	Working beyond the achievement standard	Extending with depth beyond the achievement standard
Present and perform					
Create and display art work considering how ideas can be expressed to an audience PS 4	Insufficient evidence	With guidance, create and display a poster appropriate for younger students, which communicates the concept of saving water.	Create and display a poster appropriate for younger students that describes and explains the concept of saving water.	Create and display a poster appropriate for younger students that describes and explains the concept of saving water. Students will show evidence of planning their artwork.	Create and display a poster appropriate for younger students that describes and explains the concept of saving water. Students will show evidence of planning and researching their artwork.

	QUALITY CRITERIA				
ETHICAL CAPABILITY	Insufficient evidence to demonstrate working towards the achievement standard	Working towards the achievement standard	Achieving and demonstrating the achievement standard	Working beyond the achievement standard	Extending with depth beyond the achievement standard
Decision making and actions					
 Discuss the role and significance of conscience and reasoning in ethical decision-making PS 5 	Insufficient evidence	With assistance, discuss and identify how the way we use water has consequences for a whole community.	Discuss and identify how the way we use water has consequences for a whole community. Explain the role of ethical decision-making.	Discuss and identify how the way we use water has consequences for a whole community. Analyse the value of having rules, and explain the role of ethical decision- making.	Discuss and identify how the way we use water has consequences for a whole commmunity. Analyse the value of having rules, and explain the significance of ethical decision-making.

FEEDBACK	VIC Curriculum
	Science VCSSU073, VCSIS083, VCSIS085
	Mathematics VC2M5N04, VC2M5N06, VC2M5N09, VC2M6A02
	Economics and Business Resource allocation and making choices Consumer and financial literacy
	Visual Arts Present and perform
	Ethical Capability Decision making and actions



