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CUMBERNAULD

Wild about raingardens

Learning activities (Sciences)

Experiences and Outcomes	Learning intentions	Success Criteria
I can use my knowledge of the interactions and energy flow between plants and animals in the ecosystems, food chains and webs. I have contributed to the design or conservation of a wildlife area. SCN2-02a Through carrying out practical activities and investigations I can show how plants have benefitted society SCN 2-02b I can apply my knowledge of how water changes state to help me understand the processes involved in the water cycle in nature over time. SCN 2-05a I can report and comment on current scientific news items to develop my knowledge and understanding of topical science. SCN 2-20b	 Children will be able to: Participate responsibly in the conservation of natural resources and in avoiding waste and recognise that water is recyclable. Correctly use the terms solid, liquid and gas (in relation to three states of matter) and with respect to the water cycle, terms melting, freezing, evaporation and condensation Describe and explain a simple diagram of the water cycle Design a concept for a rain garden within the school grounds Understand the fluid nature of water and how it can change due to urban development 	 Demonstrate my understanding of the water cycle for nature and in urban environments Give examples of water conservation Name the three states of matter and their role in the water cycle Explain the water cycle Identify areas in the school grounds which flood Understand the different properties of rain and how substrates and plants can slow the flow Share my ideas of rain garden design with my class

Address: 5-7 Napier Way, Wardpark North, Cumbernauld, G68 0EH Telephone: 01236 617113 Email: tlambert@scottishwildlifetrust.org.uk



Teaching and learning activities (including links to resources/interdisciplinary links)	Focus for assessment (including evidence)
 Discuss the transport of water in nature and how urban areas change the flow Discuss the risk of flooding in the school/area/town Discuss ways of slowing the flow of water down to prevent flooding Explore the school grounds and identify risk areas, discuss what can be done to reduce the risk Research different rain garden types and examine what the best type would be for your school ground Re-enact water droplets and substrate to represent a rain garden Benchmark to support practitioners' professional judgement	Class to create a concept board including photographs, ideas, drawings of: • Your ideas for a rain garden in the school • What plants should we plant? • What wildlife will visit the rain garden? Uses knowledge of water cycle and urban issues to explain the need for rain gardens to reduce flooding. Presents as Concept boards which will be followed up with Cumbernauld Living Landscape staff
 Uses more complex vocabulary to describe changes of states of water for example, 'condensation' 4 'evaporation' SCN 1-05a 	

Additional assignment – Artist boards

Experience	Codes	Outputs
Literacy	0 to 4 – 09a, 10a	Creating text to explain thoughts and ideas
	0 to 4 – 21a, 22a, 24a	Spelling, structure and introducing new vocabulary to created texts
Art and Design	EXA 0 to 2-02a	I have the opportunity to choose and explore an extended range of media and technologies to create images and objects comparing and combining them for specific tasks.
	EXA 0 to 2-03a	I can create and present work that shows developing skill in using the visual elements and concepts

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Additional curricular links:

Experience	Codes	Outputs
Literacy	LIT 0 to 4 - 02a	Taking turns to listen and talk
	LIT 0 to 2 – 04a	Reading to find useful information
	Lit 1 to 4 - 28a, 29a	Describe ideas in writing
	LIT 0 to 4 – 14a	Find and use information
	LIT 0 to 4 – 21a	Using vocabulary in descriptions
Mathematics (wksp 2 in particular)	MNU 0 – 11a - 4 -11c	Working as part of a group
		Taking turns to listen and talk
		Estimating areas which flood
		Marking areas of flooding on the ground and scaling up/down on to an
		A3 map
		Learning, talking and sharing opinions with others on topic
		Taking part in outdoor educational experiences
Health and wellbeing	0 to 4 – 01a	Express feelings
	0 to 4 – 02a	Deal with decisions
	0 to 4 – 09a, 10	Listen and talking to others about opinions
	0 to 4 – 14a	Work as part of a group
	0 to 4 – 19a	Opportunities to carry out different skills and activities outdoors
		Co-operation and communication
	0 to 4 – 23a	Taking part in outdoor education experiences
	0 to 4 – 25a	
Social Studies	0 to 4 – 08a	Explore and appreciate the wonders of nature

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CUMBERNAULD LIVING LANDSCAPE

Expansion topics:

Sustainable Urban Drainage Systems – SUDs how have we engineered water storage to keep our rivers clean?

Non-native plants - the damage they can do to the environment and biodiversity

Native plants - how they benefit the environment and biodiversity

Pollinators – what do they do for us? Food sources i.e. crops, fruits, nuts

Pollinators – how can we help them? – habitat creation, native flowers

Mapping – what is around us?

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