

Foreword

This is the second edition of this learning resource. It is part of the *Every Drop Counts* resource kit for primary educators designed to promote water stewardship with a focus on the protection, conservation and knowledge of wise use of our local drinking water. The whole kit has been made available to elementary schools, distributed learning schools, homeschool associations and student teachers throughout British Columbia's Capital region. The second edition kit includes the original "Drip Drip Drop" soundtrack as well as new and revised lesson plans, student activity sheets, *Down the Drain and Back Again* video, maps of the Greater Victoria Water Supply System, books and items for distribution to students.

The *Every Drop Counts* resource has been made possible through the co-operative efforts of the Capital Regional District (CRD) Environmental Sustainability Department, in collaboration with School District No. 61 (Victoria), School District No.62 (Sooke) and School District No. 63 (Saanich).

We appreciate the contribution made by school district staff in the development of the second edition as well as the teachers and the many others who contributed to its original production. In its development, those involved worked to link the lessons in ways that support the British Columbia curriculum and the Ministry of Education's Sustainability Education Framework.

Our fresh water is a precious resource. It is important that children learn this important lesson while they are young and that they recognize its importance in our daily lives and that of all living things.

We hope that this resource will help educators add even more value to their lessons with local and meaningful content, in addition to providing some ideas of take home messages for students to share with family and friends. By working together, we can all help our children to be environmental stewards and to use water wisely.

This is one of many CRD programs that support environmental education for regional students. For other programs please visit our website at www.crd.bc.ca/teacher



Mervyn Lougher-Goodey
Chair, Regional Water Supply Commission

Preface

Rational

The Capital Regional District (CRD) is committed to sustaining the liveability of Greater Victoria and contributing to its health, safety, and economy by supplying high quality drinking water for current and future users of the drinking water supply service and to encourage effective conservation and stewardship of the drinking water supply and catchment area.

As part of its mandate, the CRD is responsible for demand management programs which have undergone an evolution from the initial focus of providing an adequate supply of water to meet demand, to actively promoting responsible water use and ensuring the sustainability and quality of the existing supply. This is achieved by using a broad range of initiatives to assist residents, businesses, and institutions understand the interconnections between regional climate, drinking water supply and demand, and how they can use water more efficiently. Education and outreach are the foundation of the program.

As part of its ongoing efforts, the CRD wants to help educate school-aged children about the CRD's drinking water supply, water quality and water conservation. Our partnership with School Districts 61, 62 and 63 will ensure this objective is achieved through the use of *Every Drop Counts*, a curriculum supplement with region specific information.

The overall objectives of the project are:

- ▶ to raise awareness, instill skills and develop positive attitudes about the CRD's drinking water supply, quality and conservation
- ▶ to reach a grade 2 audience with materials that educate, inform and involve students in taking action toward preserving their drinking water supply
- ▶ to provide information in a way that stimulates participants to discuss water conservation actions with their peers and families and begin to explore ways of implementing these actions in their everyday lives
- ▶ to create a better understanding of the role water plays in life and lifestyle on the West Coast
- ▶ to encourage students to view water from an environmental viewpoint as well as exploring its scientific properties
- ▶ to achieve these objectives through the use of a region specific teacher-led education curriculum supplement

Acknowledgements

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How to use this resource

Navigating The Pages: A guide to the Educator's Guide

Every Drop Counts lesson plans contain the following elements:

Purpose

A brief overview and synopsis of the lesson, outlining key knowledge and skills addressed and the methodology used.

Preparation

A list of specific preparations for the lesson such as setting up experiments and which handouts to print.

Procedure

Suggested step by step instruction on how to conduct the lesson.

Assessment

Suggested strategies and criteria for assessing student learning in relation to the identified curriculum expectations are built into the lesson plan procedures.

Extensions and Adaptations

Includes lesson modifications, new activities that build on learning and resources that link to other environmental topics for more holistic learning.

Curricular Integration

This space identifies ways in which the lesson plan addresses content from other subject areas.

The Side Bar

Quickly find relevant information including:

Learning Standards: While it is understood that lessons at the primary grades are generally taught in an integrated manner, for the purposes of clarity, targeted subject area, big ideas, and content are identified for each lesson. For complete list of subject areas and learning standards refer to the complete BC's Curriculum: <https://curriculum.gov.bc.ca/>

Time: Estimated time required to conduct the lesson

Teacher Resources: A list of materials to enhance and support instruction (e.g. background information)

Student Resources: A list of handouts and student self and peer assessment tools

Lesson Resources: A list of materials used to conduct the lesson activities

At a Glance: Symbols

Look for these symbols in the lessons and on page corners to quickly find:



Handouts: Includes student activity sheets



Assessment tools: An assortment of tools including conference questions, criteria templates and answer keys



Resources: Tools and materials to support instruction, conduct lessons and complete activities



Letters to Parents and Guardians: Several lessons include take home handouts, fact sheets and do-at-home activities to extend learning at home.



Video: Includes *Down the Drain and Back Again*, an animated video about Dylan and Dana who go on a journey through the Greater Victoria water system to learn the importance of water conservation and protection, a sing-a-long video and topical online videos.



Music: *Drip, Drip, Drop* song available in three versions - instrumental, with vocals and with vocals and sound effects.

Support Materials

Every Drop Counts lessons and resources are available online at www.crd.bc.ca/teacher

Educator's Kits, including hardcopy lesson plans, multimedia tools and materials are available for loan at SD 61, 62 and 63, and through the CRD. For pick up locations see www.crd.bc.ca/teacher or contact the CRD at 250.360.3133

Table of Contents

Lessons

1 - Water Users and Uses	1
2 - Down the Drain and Back Again	19
3 - The Water Story	27
4 - Dylan and Dana's Water Adventure	41
5a - Water We Talking About?	53
b - Forms of Water	59
c - Water Actions	73
d - Water Cycle	83
6a - Sooke Lake Watershed: Drinking Water Quality	93
b - Tap Map	103
c - Bottled Water Journey	117
d - Drinking Water Cycle in Motion	127
7a - Using Water - Who and How	147
b - Using Water - Animals	159
c - Using Water - Plants	167
d - Using Water - Humans	173
e - Using Water - Conclusion	185
8 - The Water Song	189
9 - Water Words	197
10 - Indoor Water Consumption	207
11 - Water Conservation and Protection	219
12 - iSpy	229
13 - Water at Home and Abroad	235
14 - Every Drop Counts	245

Appendices

A - Curriculum Organizers and Learning Outcomes	257
B - Glossary	261
C - Video Script	265
D - Supplementary Resources, Workshops and Field Trips	289