



**GREEN BRICKS EDUCATION SOCIETY
ANNUAL REPORT
2010-11**

**1) Green B10cks (Grade 10 Green Building Program)
Curriculum Fit**

We continue to review the curriculum for any changes to ensure that our program continues to be strongly linked to the BC curriculum. Also we align ourselves with the Ministry of Education who is working with the BC Climate Action Secretariat to establish and coordinate Green School initiatives. Green Bricks was developed to compliment the four themes the Ministry is working within.

Program Preparation

We continue to receive valuable feedback from students and teachers who participate in the Green Bricks workshops. We also continue to review the program content with respect to local and global aspects of sustainable development and our environment, and our experience in green building design and changing technology. Green building continues to be a fast changing, leading edge industry and as understanding and awareness of issues facing our future increase we want to ensure our program is challenging the students on relevant and current issues such as energy, water and waste reduction challenges. As a result of these market drivers and our participant feedback we continue to adapt our presentation. We have added information and hands on activities on the 2030 Metro Vancouver Zero Waste Challenge for our in-class Lower Mainland deliveries, which includes an activity where the students explore materials that are made from natural resources such as bamboo and sugar cane.

Program Delivery

During the 2010/11 school year, we delivered to 112 classes of the original Green Bricks program called Green B10cks in the Lower Mainland; 25 classes of Green B10cks in the Okanagan and Vancouver Island regions; and 11 classes of the **H₂8** water pilot program. We had budgeted for a total of 112 combined classes of the different Green Bricks programs but due to demand (and the commitment of our team) we reached 148 classes with our Green Bricks programs. We therefore exceeded our original budget and had to start a wait list of schools for the 2011/12 school year.

We have delivered the Green B10cks program in the following school districts:



- Vancouver
- Port Moody
- Surrey
- Delta
- Port Alberni
- Comox
- Richmond
- Burnaby
- Coquitlam
- Vernon
- Kamloops
- Lumby

Here is a list summarizing the schools that have been reached this past school year:

School	City	Delivery Date
Riverside	Coquitlam	May 2, 2011
Heritage Woods	Port Moody	June 13, 2011 June 14, 2011
CABE	Coquitlam	Feb 8, 2011
Delta Manor Education Centre	Delta	Feb 9, 2011
South Delta Secondary	Delta	March 11, and March 14, 2011
Station Stretch	Richmond	Jan 13, 2011
Horizons	Richmond	Jan 13, 2011
AR McNeill	Richmond	Nov 18 and Nov 19, 2010
Elgin Park	Surrey	Jan 5, 2011 June 9, 2011
Holy Cross Regional	Surrey	Dec 2, 2010
North Surrey	Surrey	Nov 2 2010 and May 3, 2011
Lord Tweedsmuir	Surrey	April 7, 2011
Sullivan Heights	Surrey	Feb 22, 2011
Enver Creek	Surrey	April 12, 2011
Killarney	Vancouver	Nov 29, 2010
Sir Winston Churchill	Vancouver	Oct 25, and Oct 26, 2010
King George	Vancouver	Nov 9 and Nov 10, 2010
Windermere	Vancouver	March 9, 2011
Gladstone	Vancouver	May 4 and May 5, 2011
Eric Hamber	Vancouver	Nov 16 and Nov 17, 2010
Burnaby South	Burnaby	March 1, 2, 3, 2011



Regional Deliveries		
Highland	Comox	Nov 22, 2010
ADSS	Port Alberni	Dec 13 and Dec 14, 2010
Vernon Secondary	Vernon	May 2, 2011
Charles Bloom	Lumby	May 4, 2011
South Kamloops	Kamloops	May 5, 2011

We conclude each presentation by challenging the students to participate in the BC Green Games. BC Green Games is a province-wide competition for students in Kindergarten to Grade 12 designed to motivate action, enable sharing and reward and celebrate the green efforts of schools in BC. The BC Green Games is a partnership between Science World BC and the BC Ministry of Education. The Green Bricks team were judges for 2009, 2010 and 2011 entries and through our involvement in this competition have partnered with the organizers to merge our competitions (BC Green Games and Green Bricks Challenge).

Program Impact on our Stakeholders

The presentations have been well received by both teachers and students. We have had positive feedback through direct contact with the teachers and teacher evaluation forms. We have had similar feedback from students through student evaluation forms and by contact with the students in the classroom.

Some of the teacher evaluation comments included:

"I like the balance between hands-on and lecture materials."

"Now I remember the AWESOME value of Green Bricks. Loved it!"

"Hand-on, up-to-date, really fun, very applicable, and curriculum correct! PLEASE keep us on your list for next year!"

"Thanks to you and your team for yesterday's presentation. It was very well received by our students and extremely beneficial to their understanding of Science 10 ecology concepts. I look forward to booking the Green Bricks program again next year."

"On behalf of all of us Science 10 teachers at Burnaby South, a huge THANK YOU. Our students and teachers really enjoyed the presentations and we are all impressed with your energy!"

"The presenter was EXCELLENT, the kids loved her and the



presentation and we have a super hard group. They were fully attentive and really enjoyed her presentation. it is excellent ...wow."

Some of the student evaluation comments included:

"The (Green Bricks) presentation affected me a lot and it gave me lots of ideas and I shared these ideas with my family."

"After I learned the presentation I went home and told my parents to change our light bulbs."

"Green Bricks presentation taught me that numbers 3, 6, and 7 plastics cannot be recycled."

"The speaker did a great job in explaining easy simple things we can do to help the environment."

"The presenter was very energetic. She inspired me to take action."

"My favorite part of the presentation was when we got to assemble the solar powered cars."

"My family already knew that plastics like #3 and #6 couldn't be recycled, but now I have asked them to not buy those numbered plastics because it is wasteful and harmful to the environment."

"I talked to my parent about having a compost bin and they thought it was a good idea so today we started our compost."

"As for becoming 100% waste free, my parents and I are still working on that, but nonetheless we are very happy to be more energy efficient and less wasteful with our resources."

2) Green Bricks – Water Program H₂8

We are excited to report on the success of the development and delivery of the new Green Bricks water program, called **H₂8**. This workshop engages students to understand the importance of water in our lives and how we can manage water sustainably, both personally and in our built environments, in our future. It also provides young people with knowledge of green water career opportunities in various fields.

The **H₂8** workshop explores the role water plays in our lives; nature's job of



recycling water; how climate change is affecting global access to water; and explores solutions for sustaining future access to water.

Activities included in the **H₂8** workshop include:

- participating in a trivia game throughout the presentation;
- tasting water samples from other countries;
- testing for TDS (total dissolved solids) in Metro Vancouver's municipal water;
- planning a sustainable city's municipal water cycle; and,
- conducting an experiment to investigate what happens when our oceans become more acidic due to excess carbon dioxide in our oceans.

We originally planned for the interactive 75-minute student workshop for grade 8 science classrooms but then tailored it to also reach the grade 4 classrooms. With age relevant adaptations, our water workshop fits well with both the Grade 4 and Grade 8 curricula. We piloted the workshop in two grade 4 classes at William Watson Elementary School (Surrey) and also in nine grade 8 classes at South Delta Secondary School (Delta).

H₂8 is correlated to BC Ministry of Education's curriculum standards in the Grade 8 Science and Grade 4 curriculum standards. It also aligns with the Ministry of Education's efforts to work with the BC Climate Action Secretariat to establish and coordinate Green School initiatives.

3) Development of Regional Presentation and Kits

We have developed a Regional Kit for classrooms located outside the Metro Vancouver area. This allows teachers to deliver the Green Bricks concepts we cover during the presentation. The kit includes an easy to deliver version of our presentation; all the hands-on activities we include in our presentation with ready to go supplies for the activities; and a Power Point presentation that the teacher can use during the class with the students to introduce the activities.

We marketed the Regional Kits in January to several regional communities in BC and kits were sent to schools in the following communities:

- Fort Nelson
- Prince George
- Cambell River
- Squamish
- Maple Ridge
- Elkford
- Midway

4) Website

We continue to build and update our website for Green Bricks. The purpose of the website is to share information on our organization and programs, highlight success stories, provide a research venue for students and provide profile for our funders. Please visit www.greenbricks.ca. We have developed



the following tools to make it simple and user friendly for the teachers and students:

- Online teacher registration for the Metro Vancouver presentation
- Online registration for the regional kits
- Online registration for the new water program
- Challenge page which includes the link to BC Green Games, online registration and challenge ideas

Our next update to the website will be to include success stories of sustainable action from the schools we visit. For example, schools have been involved in amazing projects such as adopting an endangered animal, setting up a compost program in the school, and working with the school cafeteria to minimize the waste produced by the lunch hour. We want to profile these inspiring schools, teachers and students.

5) Funder recognition

- Media Coverage
We have submitted an article to Construction Business Magazine, with readers from the various sectors of the building industry in B.C. and Alberta. The magazine has a Green Building feature so our article discusses the development of green schools and highlights the work Green Bricks does in the classrooms. It gives special mention to our program supporters.
- Website
As previously mentioned, we are continuing to update and develop our website to detail the program and make it easy for the teachers to participate in the program. This website also profiles the support we have received from our program funders.
- Classroom Presentation
Sponsor recognition is shared in every classroom presentation by way of a slide thanking our program supporters.

On behalf of Green Bricks Education Society, we would like to **THANK YOU** - our funders for supporting our programs.

Warm regards,

Diana Klein



Diana Klein, LEED AP, P.Eng

Co-Executive Director

Green Bricks Education Society

Fiona Zawadzki, B.A., B.Ed.

Co-Executive Director

Green Bricks Education Society



BALANCE SHEET

Statement of Financial Position Year Ended 31 July, 2011

ASSETS

Cash, bank accounts, and short term investments	\$177.08
Investments	\$0.00
Amounts Receivable	\$2,000.00

Total	\$2,177.08
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LIABILITIES

Accounts payable	\$8,162.95
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Total	\$8,162.95
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STATEMENT OF OPERATIONS

Year Ended 31 July, 2011

REVENUE

Contributions	\$74,297.06
Interest	\$10.06

Total	\$74,307.12
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EXPENSES

Professional and Consulting Fees	\$72,305.40
Insurance	\$656.00
Office Supplies and expenses for workshops	\$5,203.16
Travel	\$1,565.43
Accounting	\$448.00
Governance	\$115.00

Total	\$80,292.99
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Excess of expenses over revenue	\$5,985.87
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