



June 8th, 2015

**GREEN BRICKS EDUCATION SOCIETY
ANNUAL REPORT
2014-15**

1) Green Bricks Grade 10 Program

Curriculum Fit

Our provincial curriculum is being revised so 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 have received valuable feedback from students and teachers who participated in Green Bricks. We also reviewed the program content with respect to local and global aspects of sustainable development and our environment. 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 and waste reduction challenges. As a result of these market drivers and our participant feedback we continue to adapt our presentation. We revisited all our activities in the program to ensure the flow of the hands-on components is consistent with the messaging.

Marketing to Schools and Program Delivery

We have delivered to 202 classes this school year 2014/15 with the Green B10cks program to secondary schools in the following school districts:

- Vancouver
- Surrey
- Vancouver Island
- Burnaby
- Port Moody/ Coquitlam
- Abbotsford
- Okanagan
- Richmond
- Maple Ridge/Pitt Meadows
- Delta



Here is a list summarizing the schools delivered:

School	City
Churchill	Vancouver
Pattison High School	Vancouver
Alexander Academy	Vancouver
Crofton House	Vancouver
Kitsilano	Vancouver
Gladstone	Vancouver
MacNeil	Richmond
Station Stretch	Richmond
Horizons	Richmond
Byrne Creek	Burnaby
Surrey Christian School	Surrey
LA Matheson	Surrey
Sullivan Heights	Surrey
City Central Learning Centre	Surrey
Johnston Heights	Surrey
Guildford Park	Surrey
North Surrey Learning	Surrey
Tamanawis Secondary	Surrey
Heritage Woods	Port Moody
Archbishop Carney	Port Coquitlam
Riverside	Coquitlam
New Westminster	New Westminster
Delview	Delta
Garibaldi	Maple Ridge
Dasmesh School	Abbotsford
Hatzic	Abbotsford
Heritage	Abbotsford
Rick Hansen	Abbotsford
Yale Secondary	Abbotsford
Abbotsford Senior	Abbotsford
Abbotsford Traditional	Abbotsford
Regional Deliveries	
Penticton Secondary	Penticton
KSS	Kelowna
Mount Douglas	Victoria
Reynolds	Victoria
Parkland	Victoria
Claremont	Victoria

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 since the launch of the competition in 2009 and through our involvement in this competition have partnered with the organizers to support their competitions (BC Green Games and Green Bricks Challenge).

We also promoted Green Bricks 2nd annual conference called Futures: Green Collar Career Conference for students in grades 10-12. This event was held on Saturday February 14, 2015. See below for details on this event. We also promote the conference to the students for next year February 13th, 2016.

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. For example one student we presented to back in 2011 is now in 2nd year at SFU University studying engineering and interning locally in a green job.

Some of the teacher evaluation comments included:

The best part was seeing the engagement of students. The workshop was definitely a "workshop" and not a lecture. Students really enjoyed all the hands-on activities and audience participation.

The best part was how the workshop was practical, relevant, related to the real world and also the Science 10 Curriculum.

Great job! We look forward to having you back!

They students liked everything about the workshop. They thought Diana was professional and especially like the car kit.

Students had a lot of fun. They learned a lot about how different things like sugar cane, bamboo can be used to make things that we would never have thought of.

The students has so much fun and asked why we can't do class projects like building solar cars in the class!

Some of the student evaluation comments included:



The most important thing I learned was that I can do something now for my future and maybe I can get a green job

The best part was all of it! I love the roofs with plants and the ice rink with rain water

The presenter had so much information; she's inspired me to use less water and energy.

I am going to talk to my parents about making our home more energy efficient as we can save money.

My favourite part was building the solar cars and seeing them move with the sun.

2) Green Bricks Grade 4 Water Program

Curriculum Fit

As stated above, we are staying abreast of the new curriculum changes proposed for all grades to ensure we continue to have a strong curriculum and grade fit and will be ready when the new curriculum is officially adopted. 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.

Program Preparation

We received valued feedback from students and teachers who participated in this water program last year 2013-14. We also continued to review the program content with respect to local and global aspects of sustainable development relating to water in our environment. As a result of these market drivers and our participant feedback we continue to adapt our presentation.

Green Bricks H₂O is a highly interactive workshop that engages Grade 4 students to understand the importance of water in our lives and how we can manage water sustainably into the future. In the workshop students explore the role water plays in our lives; the benefits of Metro Vancouver tap water; global water issues; and solutions for sustaining future access to water in our built environment. Activities include a water trivia game with students working in groups, TDS testing for dissolved solids, taste testing Metro Vancouver water versus Yemen water, City Pictionary (designing our urban environment) and "Energizing Water" (linking energy used to access clean water).



Marketing to Schools and Program Delivery

This school year 2014/15 we have delivered to 168 classes to elementary schools in Vancouver, Surrey, Delta, Coquitlam/Port Coquitlam, Mission, Abbotsford, Maple Ridge/Pitt Meadows, and Okanagan.

Here is the list summarizing the elementary schools we have delivered to:

School	City
Bayview	Vancouver
Chief Maquinna	Vancouver
David Lloyd George	Vancouver
Dr. Annie B Jamieson	Vancouver
Dr. G. Weir	Vancouver
Laura Secord	Vancouver
Laura Secord	Vancouver
Lord Beaconsfield	Vancouver
Maple Grove Elementary	Vancouver
Mount Pleasant	Vancouver
Quilchena	Vancouver
Sir Charles Kingsford Smith	Vancouver
Sir John Franklin	Vancouver
Sir Wilfrid Laurier Annex	Vancouver
Trudeau	Vancouver
Walter Moberly	Vancouver
A.H.P. Matthew	Surrey
AJ McLellan	Surrey
Forsyth Road	Surrey
Harold Bishop	Surrey
Hazelgrove	Surrey
James Ardeil	Surrey
Maple Green	Surrey
Walnut Road	Surrey
William Watson	Surrey
Howard DeBeck	Richmond
Albert McMahon	Mission
Deroche	Mission
Hatzic	Mission
Hillside Traditional Academy	Mission
Mission Central	Mission
Silverdale	Mission
West Heights Community	Mission
Aberdeen	Abbotsford
Alexander	Abbotsford



ASIA North Poplar	Abbotsford
Auguston Traditional	Abbotsford
Barrowtown Elementary	Abbotsford
Blue Jay	Abbotsford
Bradner	Abbotsford
Centennial Park	Abbotsford
Clearbrook	Abbotsford
Dave Kandal	Abbotsford
Dr. Roberta Bondar	Abbotsford
Dr. T.A. Swift	Abbotsford
King Traditional	Abbotsford
Margaret Stenersen	Abbotsford
Mountain	Abbotsford
Prince Charles	Abbotsford
Ross	Abbotsford
Sandy Hill	Abbotsford
Terry Fox	Abbotsford
Pinetree Way	Coquitlam
Anne McClymont	Kelowna
Ellison	Kelowna
Shannon Lake	Kelowna
Bank Head	Kelowna
Peachland	Kelowna
Annieville	Delta
Beach Grove	Delta
Brooke	Delta
Cliff Drive	Delta
Cougar Canyon	Delta
English Bluff	Delta
Gibson	Delta
Gray	Delta
Holly	Delta
Port Guichon	Delta
Richardson	Delta
Sunshine Hills	Delta
Meadow Ridge	Maple Ridge
Harry Hoodge	Maple Ridge
Davie Jones	Pitt Meadows
Laity View	Maple Ridge
Websters Corner	Maple Ridge

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 since the launch of the completion in 2009 and through our involvement in this competition have partnered with the organizers to support their competitions (BC Green Games and Green Bricks Challenge).

New this year, we have launched an online water audit competition for grade 4 students to encourage action and assess the impact of our program. The students are challenged to track their water use in the bathroom demonstrating that they are implementing conservation strategies learned from the Green Bricks presentation and therefore share these practices with their families. To encourage participation, we have a challenge that for every student who completes this audit, his or her class gets an entry into our SAVE WATER, EAT PIZZA competition. To see the audit, visit greenbricks.ca/water.

As of June 5, we had 450 students, representing 34 schools complete the online audit after participating in the Green Bricks presentation. 96% of the students who completed the audit reported saving water and students saved an average of 80L of water each. The winner of the pizza party was Ellison Elementary in Kelowna.

Both teachers and students have very well received the presentations. 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:

The best part of the presentation was when the kids thought they drank toilet water. No, I'm kidding, but it was funny. The kids really enjoyed the hands-on activities.

It was a great workshop – engaging and interesting!

Students were amazed at how much water is being used and commented about how lucky we are to live here.

My students mentioned that they were educating their parents about the over-use of plastic water bottles.

I will be booking you again next year!



It was great to see even my extremely shy student get up and take a turn when they played Pictionary. You were so good at relating to them and managing their enthusiasm.

I think this is a really important program. I loved that the instructor talked about how we are water hogs in this country. We had been discussing similar things in class, so the reinforcement from someone else was terrific. I also agree with water metering!

The presenter had excellent classroom management skills, and the students were completely engaged for the entire time, which is not an easy task!

Please keep offering this workshop as we loved it!

Some of the student evaluation comments included:

The most important thing I learned is that how lucky we are to have our tap water. It is better than water from other countries.

I hope you can come back to teach us again.

I never knew that bottled water could be not as good as tap water. Thank you for this and I will tell my mom!

I learned that I am good at saving water as when I did the water audit I learned I can save water! I was very happy with me.

3) Green Collar Career Conference called Futures

Our 2nd Annual Green Collar Career Conference called Futures was held at the Hilton Metrotown on Saturday February 14, 2015. This was offered free of charge to students in grades 10-12 across the province.

The "green economy" is changing the face of the workplace in BC and around the world. This day is dedicated to students in grades 10 and 12 to learn about exciting and endless career opportunities. **Futures** is much more than a career fair as it allows youth to interact with career mentors from various sustainability related careers who have excelled in and are passionate about their green careers.



This interactive career workshop was offered free of charge to young people in grade 10-12. Over 160 students registered and participants had the opportunity to:

- Meet and interact with amazing and successful people who shared their sustainability career paths in 5 breakout, roundtable sessions. 30 career mentors shared their career journeys, detailing education requirements, job prospects and salary expectations.
- Learn about emerging sustainability career opportunities in BC and Internationally;
- Find out what it takes to reach their goals; and,
- Practice networking skills.

The conference began with an introduction by the President of Green Bricks Board and our keynote address by Dr. Isabelle Côté, a Professor of Marine Ecology at Simon Fraser University.

The mentor breakout sessions then began with students choosing their first mentor session. The career mentors spent 25 minutes with each group of 7-8 students. The students had opportunity in these sessions to hear from the mentors what they wanted to do at 16 for a career, a day in the life of..., and what education they needed. The mentors brought in 'show and tell' so students could experience their work and the students had opportunity to ask questions and interact. 3 morning sessions took place with music between sessions whilst the students found their next mentor table.

During lunch the students had a chance to informally network with the mentors followed by a keynote address by Toni Desrosiers, the founder of Abeego Designs Inc. where she invented the first reusable beeswax food wrap. Toni won the top spot in British Columbia for the 2014 BDC Young Entrepreneur Award

The students then had further opportunity for breakout sessions with the mentors to explore 2 more careers in the afternoon. Our conference concluded with a wrap-up session and a chance for the participants to win prizes including a \$500 scholarship.

It was truly a moving and inspiring day for both students and the career mentors. It was amazing to experience the energy in the room and hear the excitement as students learned about possibilities in green careers and a chance to combine their passion with their future work.



4) Green Bricks Delta's Waste Not Program for Grade 5

Program Preparation

This interactive and curriculum-connected workshop was developed in the Fall 2014 to engage Delta's grade 5 students to understand the issues around garbage in our region. It was designed to raise student awareness on issues such as Metro Vancouver's Zero Waste Challenge and how we can re-frame garbage to become a future resource. Our workshop topics include the 3Rs, in particular how important it is to reduce and re-use our resources, including the 'how to' for recycling and composting, and solutions for sustainable waste management in our built environment. In Delta we focused on helping the young residents (and in turn helping their parents) learn what can and cannot go in the municipal organics program, changes to recycling that affect BC, and to explore waste issues in our built environment. We developed interactive activities such as "Take a bite out of Trivia" using apples to explore the facts about composting, a sorting game to define renewable and non-renewable resources, went on a time machine to the future of 'zero waste', and played "Name that Natural Resource" to explore what materials are made from and alternate choices for our future. This workshop is an hour in length, very hands-on, and engaging. It encourages all learners to participate, as it is a series of connected, relevant activities.

To keep the learning going after we leave the classroom, we created a continuous learning component, which is a list of classroom/at home activities that the teacher can use to keep the discussions going. These include crafts such as developing a sign for their personal Green Can to promote proper use, competitions such as a home waste audit, and Language Arts to write a letter to encourage change in packaging, and composting.

Curriculum Fit

This solid waste workshop fits well with the grade 5 BC Ministry of Education's prescribed learning outcomes (PLOs) as there is a strong link to natural resources in terms of protecting our natural resources so understanding the hierarchy of the 3Rs is a key discussion in grade 5. As curriculum changes, Green Bricks will stay abreast of all changes to the BC Ministry of Education curriculum to ensure this workshop continues to align with all changes to the curriculum. It would also align with the Ministry of Education's efforts to work with the BC Climate Action Secretariat to establish and coordinate Green School initiatives.

Marketing to Schools and Program Delivery

We marketed the program to all Delta Elementary Schools and delivered the program to 25 classrooms reaching 11 schools. The uptake of the program



was highly successful and we have 3 additional schools on the wait list for next school year.

Here is the list summarizing the elementary schools that we have reached this school year, 2014/15:

Elementary School
Annievale
Beach Grove
Brooke
Cougar Canyon
Gibson
Hawthorne
Hellings
Holly
McCloskey
Pebble Hill
Port Guichon

Both teachers and students have very well received the presentations. 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:

The best part was the hands on activities in groups. The students worked well together and were totally engaged. The presenter was well organized and had good control of the lesson.

My students had Fun! We learned lots of new things. We liked the contests. Putting things into the right container was a great idea.

The workshop was highly effective in highlighting the importance of caring for our renewable and non-renewable resources under the lens of waste reduction and management.

Keep doing this program!! It is excellent and a very valuable learning experience for the students and the teacher! Thank you!

Some of the student evaluation comments included:

The most important thing I learned is how we can help the planet by putting things in the organics



I learned how important it is for us to REDUCE our garbage

I liked all the trivia and games and the plate made of sugar cane.

The bingo and true and false apples were fun

I learned what we can't put in the garbage.

5) Funding and Finances

We have partially confirmed funding approval for this 2015-16 school year. We are in discussion with the following funders: Fortis BC, Vancity, the City of Vancouver, Abbotsford and Mission Water and Sewer Services, BC Hydro, Vancouver Foundation, Metro Vancouver, and Corporation of Delta.

6) Website

We continue to build and update our web site for Green Bricks. The purpose of the website is to share information on the program 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 Green Bricks H₂O Water Program
- Online registration for the Green Blocks Grade 10 Program
- Online registration and promotion of the Green Collar Futures Conference, including a sample of video mentor sessions (to be posted by July 2015)
- Challenge page which includes the link to BC Green Games, and challenge ideas

7) Partnership Recognition

- Press Release
We have distributed a press release for the Green Bricks Program in June 2015 to highlight the amazing achievements of the students.
- Water Audit Winner
The winner of the water audit was a school in Kelowna so we will be organizing this celebration and sending the teacher all the supplies, including a letter recognizing the support from our sponsors.
- Website/Outreach Materials
As previously mentioned, we are continuing to update and develop our website and outreach materials to detail the program and make it easy for the teachers to participate in the program. This also provides recognition for all our sponsors.



On behalf of Green Bricks Education Society, we would like to **thank you** for supporting this project. If you have any questions, please contact us.

Warm regards,

The **Green Bricks** development team:

Diana Klein, Leed AP, P.Eng
Co-Executive Director
Green Bricks Education

Fiona Zawadzki, B.A., B.Ed.
Co-Executive Director
Green Bricks Education



BALANCE SHEET

Statement of Financial Position

Year Ended 31 July, 2015

ASSETS	
Cash, bank accounts, and short term investments	\$12,468.39
Investments	\$0.00
Amounts Receivable	\$0
	<hr/>
	Total
	\$12,468.39
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LIABILITIES	
Accounts payable	\$0
	<hr/>
	Total
	\$0

STATEMENT OF OPERATIONS

Year Ended 31 July, 2015

REVENUE	
Contributions	\$175,816.24
Interest	\$40.45
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	Total
	\$175,856.69
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EXPENSES	
Staff, Professional and Consulting Fees	140,970.91
Insurance	1,995.95
Conference Hard Costs	9,457.08
Office Supplies, and expenses for workshops	7,688.44
Travel	3,275.92
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	Total
	\$163,388.30
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Excess of revenue over expenses	\$12,468.39
