



Galiano Conservancy ASSOCIATION

Galiano Conservancy Association

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VON 1P0

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Renewable Energy in Action

2 days and 1 overnight camping at the Millard Learning Center for Grade 6-12

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|----------------------|--|
| 10:10 AM | Ferry leaves Tsawwassen Terminal. Typically the Victoria, Swartz Bay ferry arrives on Galiano around 11:45AM. Click here for BC Ferry schedules |
| 11:05 | Ferry arrives at Sturdies Bay Galiano Island. |
| 11:05 – 11:30 | Drive to Millard Learning Centre (MLC). Need on-island transportation? Rent our bus! Seats up to 54 small students or 36 adults. |
| 11:30 – 11:45 | Welcome & Intro to MLC |
| 11:45 – 12:15 | LUNCH |
| 12:15 – 1:30 | Intro to Energy. Step into the forest and play our concept game that gets kids thinking outside the box about what energy forms are, and how they look in our every day life. Using natural and man made objects students must associate specific energy forms to them! |
| 1:30- 2:00 | Bike Bonanza! Hop on our Generator and Blender bikes! Visualize energy transformations and enjoy a delicious peddled smoothie! |
| 2:00 -3:00 | Light and its Properties – 3 groups; decomposition, re-composition and Invisible light energy. Get up close and personal to the amazing properties of light through games, toys and discussions. |
| 3:00 – 4:00 | Solar Thermal; Pop-can heaters and solar oven S'mores! |
| 4:00-4:15 | Wrap up |
| 4:30 | GCA Staff Depart |

Day 2 – Renewable Energy in Action!

7:00 AM	Rise & Shine! Get Ready for the Day
7:30 – 8:30	Breakfast
8:30 – 10:00	Clean-up, pack up, prep lunches & snacks
10:00- 10:15	GCA Staff arrive Check in and Intro to day 2!
10:15 – 10:30	Multimeter Demo – What is current, voltage and resistance?
10:30– 10:45	Solar PV Cell Explanation & Electron Game
10:45 –11:45	The Power of Solar Energy – Solar PV – 2 stations (solar cars & PV cells) Using many small solar cells we can connect them in parallel and in series to see what voltage and amperage is created. Why not have a race! Use our solar cars and race track to see who has the fastest car!
11:45 – 12:15	Lunch Break at MLC
12:15 – 1:15	The Power of Wind! –Team Wind Turbine design challenge. What factors do we need to consider for a good wind turbine? Get thinking and make some models! Each student team will create and test their turbines using multimeters to see what design gives the highest power output.
1:15– 1:40	Walk to Chrystal Cove. A 15min walk, along a beautiful ridgeline, to arrive at a cove with; amazing rock formations, abundant marine life and views of the southern gulf islands.
1:40 – 2:25	Group A – The Power of Water! Waterlilies and dams! Group B – Climate Change Relay
2:25 – 2:55	Snack Break & Cove exploration
2:55 – 3:40	Group A – Climate Change Relay Group B – The Power of Water! Waterlilies and dams!
3:40 – 4:00	Walk back to MLC – forest route
4:00 – 4:30	Wrap Up, pack up and Feedback forms
4:30	Leave MLC to Ferry Terminal
5:45	Ferry Departs Sturdies Bay
6:40 PM	Ferry arrives at Tsawwassen Terminal