



caring for nature whenever we build something new

protecting nature from our actions on the campus

using our campus in ways that cause less damage to the environment

learning about ecosystems & developing good relationships with nature

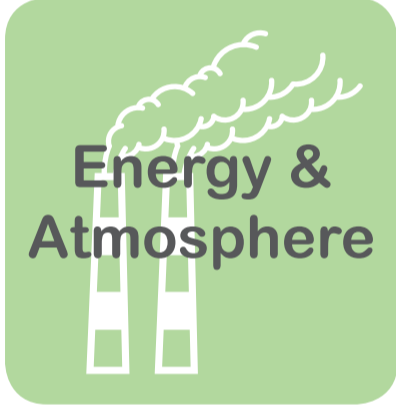


making sure our new buildings have features that help to save water

protecting resources by ensuring equipment is operating at its best at all times

being aware of how we use water on campus, and trying to be more responsible about water use

learning about water as a resource & encouraging water conservation



designing facilities in a way which reduces the amount of AC and electricity we need

making sure our equipment and is operating efficiently

using equipment responsibly

learning about energy sources & promoting considerate energy use



building with materials that are environmentally friendly & designing flexible, adaptable spaces

managing the building's use of resources

using materials responsibly

learning about the lifecycle of materials & acting as conscientious consumers



creating rooms and spaces that are comfortable and healthy to be in

choosing products and materials to use in the building that cause the least harm

making healthy choices and working to keep the school a safe and healthy place

learning about things that affect our wellbeing & making healthy choices



ensuring that our construction projects meet high standards of fairness and quality

overseeing and helping with everyone's efforts to make our school more sustainable

working on policies and ideas to make the world a fair and sustainable place

learning about societies and economies & working towards a more sustainable world

"The Green Grid" | Sustainable School Program Issues Chart

Last Updated Feb 2013

	A. Construction & Building Upgrades	B. Operations & Maintenance	C. Occupant Activities	D. Teaching and Learning
	Items related to the design and construction of new facilities and the renovation of existing facilities.	Items related to ongoing recurring activities involved in the running of the school, including monitoring, scheduled preventative actions, and event triggered corrective actions.	Non-curricular items related to school programs and activities, business operations, special events, and the overall promotion of a culture of environmental stewardship.	Knowledge of environmental issues; positive disposition; cognitive ability to identify issues; and, appropriate behaviours. Developmentally appropriate delivery.
1 Land Use & Ecosystems Reduce impact of the School on the immediate and surrounding areas (waterways, water table, microclimate and ecosystems)	Campus grounds works respect local ecology Site managed during construction; pollution reduced Native plants - reduce pesticides and fertilizer use Native plants - restore habitats, promote biodiversity Stormwater management - erosion control systems Stormwater management - contaminant containment Permeable hardscape, increased water absorption Reflective surfaces and shading, reduced heat island	Landscape Contract Landscape maintenance procedures & product use Stormwater erosion management maintenance Stormwater contaminant containment maintenance Vehicle maintenance - containment of contaminants Vehicle areas - containment of contaminants	Gardens - promote biodiversity (educational) Gardens - food source (health) Food program sourcing - promote sustainable supply Grounds & Facilities Use Policies: Damage mitigation for school activities Damage mitigation for community / weekly activities Damage mitigation for special events	Landscape, Ecology, Biodiversity Literacy Stage 1: Love of Nature Stage 2: Exploration and Discovery Stage 3: Social and Systems Awareness Stage 4: Active and Responsible Citizenship
2 Water Use Reduce the School's potable water use, and reduce the production of sewage, thereby reducing the burden on supply and treatment infrastructure.	Fixtures & strategies that reduce potable water use Fixtures & strategies that reduce sewage production High efficiency irrigation and native landscaping Systems for rainwater, greywater, filtered water On site treatment of wastewater to reduce outputs Process water reduced (refrigeration, cleaning, etc) Water meters are installed to monitor use	Fixture adjustment plan Fixture maintenance plan Fixture replacement plan Maintaining water supply systems - check for leaks Landscape irrigation procedures & system checks	Water use awareness / responsibility: Drinking fountains & water bottle use policies Student and teacher awareness programs / signage "Water Day" Activities (March 22) Food Program: Reduced water use for prep. and cleaning Water distribution to students	Water Literacy Stage 1: Love of Nature Stage 2: Exploration and Discovery Stage 3: Social and Systems Awareness Stage 4: Active and Responsible Citizenship
3 Energy & Atmosphere Reduce the negative environmental affects associated with the School's consumption of energy that is generated through nuclear fission, hydroelectricity and the combustion of fossil fuels.	Alternative transportation (carpool, bike racks, etc) Non-use of ODP or GWP refrigerants Non-use of ODP insulation Energy efficient building massing and envelop Energy conserv. through HVAC equip. and design Energy conserv. through lighting equip. and design Energy conserv. through efficient water heating systems Energy conserv. through efficient equipment Proper commissioning of equipment Meters and verification systems installed Use of clean energy sources (solar, geothermal, etc)	Annual equipment re-commissioning / tuning HVAC system refrigerant management HVAC system maintenance for operational efficiency HVAC system replacement program Lighting systems - bulb replacement program Lighting systems - fixture replacement program Vehicle Contract - energy efficiency; maintenance Energy conserv. through efficient IT and AV equipment	Energy use awareness / responsibility: Room occupancy policies - lights on/off Room occupancy policies - A/C settings After hours systems operation policies Student and teacher awareness programs / signage Transportation policies: Travel of students to and from school Travel of staff to and from school (carpools, etc) Organization of carpool for staff Travel of staff to overseas locations Bus maintenance for fuel efficiency Bus idling policy Food Program: Food Prep - associated energy use Local sourcing (reduced transportation)	Energy & Atmosphere Literacy Stage 1: Love of Nature Stage 2: Exploration and Discovery Stage 3: Social and Systems Awareness Stage 4: Active and Responsible Citizenship
4 Resource Use and Waste Management Reduce the impacts associated building materials lifecycles; minimize the need for landfill and incineration.	Recycling areas provided for sorting and storage Waste management plan during construction Efficient design that reduces material use Reuse of existing or salvaged materials Use of materials with high recycled content Use of regionally manufactured materials Use of rapidly renewable materials Use of wood from certified sources Building elements are designed for disassembly Flexible building design for maximum functionality Building design for ease of future renovation Specification of high quality materials for durability	Sorting and recycling of materials on campus Management of non-recyclable waste Sourcing of locally available products (general policy) Bulk orders for minimal packaging (general policy) Furniture replacement - recycled content; local	Resource use awareness / responsibility: Student and teacher awareness programs / signage On site location of recycling bins School wide paper reuse and recycling policies Business Operations: Recycled content; locally manufactured products Bulk orders for minimal packaging Educational Operations: School communications (reports, newsletters, etc) Classroom paper vs tablet policies Educational materials management & policies Food Program: Food and kitchen waste management program Packaging and utensils policies Grounds & Facilities Use Policies: Policies regarding use of plastic for special events	Resource Use and Waste Management Literacy Stage 1: Love of Nature Stage 2: Exploration and Discovery Stage 3: Social and Systems Awareness Stage 4: Active and Responsible Citizenship
5 Occupant Health & Wellbeing Provide a healthy, safe and comfortable environment for occupants, thereby reducing health issues and improving attendance and productivity.	Site safety procedures during construction projects Maximize ventilation and outdoor air distribution CO2 monitoring and system automation High efficiency filters for particulates in A/C equipment Air handling systems protected during construction Post-const. building flush-out, prior to occupation Low VOC paints, adhesives, carpet systems and furn. Wood products with no added formaldehyde Lighting and thermal comfort control provided Artificial light levels at appropriate standards Provision of natural daylight and glare control Provision of views to outdoors Enhanced acoustics to reduce background noise Pollutant control (ie. exhaust fans, door closers, etc) Humidity control and mould prevention School security, emergency communications systems Quality public spaces, promote community interaction	Monitoring and maintenance of HVAC HVAC filter maintenance program Low VOC products for repainting/replacement/repairs Furniture replacement - chemical content Thermal comfort survey to confirm system operation Cleaning - chemical use and procedures Monitoring moulds and other contaminants Maintenance and testing of communications systems Upgrades to security systems	Business Operations: Procurement - chemical content (VOCs, chlorine, etc) Food Program: Nutritional value of food Food sourcing - organic, pesticide free Safety Programs: Training and practice of emergency comm. systems Fire drill program Safety / lockdown drill program	Health and Wellbeing Literacy Stage 1: Love of Nature Stage 2: Exploration and Discovery Stage 3: Social and Systems Awareness Stage 4: Active and Responsible Citizenship
6 Promoting Sustainable Development Activities and policies to "encourage changes in behaviour that will create a more sustainable future in terms of environmental integrity, economic viability and a just society for present and future generations." (UNESCO)	Green features are visible elements in the school Strong relationship between built and natural env. Building responds to time of day and seasons Signage or displays explain green features Contractors comply with human rights standards Contractors on site comply with safety standards Use internationally recognized building codes Ethical materials selection policies New buildings are designed to be accessible: Pathways for people with reduce mobility Washroom design Signage	Assess current status; report on improvements Regular reports to Board on specific upgrades Student involvement in assessments Contractors comply with human rights standards Contractors on site are treated fairly by UNIS Contractors helped to comply with Int'l Env. Standards	Business Operations: Ethical purchasing policies (ie. Fair Trade) Governance: School Mission Statement has Green mandate Future / Vision Plan refers to green priorities Proposals to Board require green consideration Creation of a Green committee Extra-Curricular: Support for a Green Club CAS program activities Service Learning Units Representation of green issues on Student Council Special Activities/Events: Activities for UN Day, Earth Day, Water Day, etc Green Day to promote environmental awareness Green booth or display at other activity days Promotion / Public Relations: School Green mandate available on website Internal - green items explained to staff & students External - press release; publications Involvement in Green organizations (ie VGBC) School greening case study presented to the public Grounds & Facilities Use Policies: Public / community access to grounds Sustainable Event Management System	Cross-curriculum themes: Citizenship education Health education Consumer education Topics that might be woven into existing coursework: Culture & religion for a sustainable future Indigenous knowledge & sustainability Women & sustainable development Population & development Understanding world hunger Sustainable agriculture Sustainable tourism Sustainable communities Globalisation Climate change