

COLLATED IDEAS FOR NEW #EASTCITYSCHOOL DESIGN

Idea Title: Indigenous methods and materials

Idea: The school design can incorporate the use of appropriate indigenous design concepts and indigenous materials (local, sustainable, minimally processed) to incorporate shared history right into the building itself.

Idea Title: Indigenous methods and materials

Idea: I agree - acknowledging the history of the land, and receiving direction from local Indigenous communities on how to do this in the physical building as well as the new school's culture is of utmost importance.

Idea Title: Create a physical space for history

Idea: I envision an area that is for playing in, but also allows the children to get a glimpse of what life used to be like here. For example, a small structure that resembles the traditional native dwellings from pre-contact era would be amazing. A small chinked wooden cabin for the European settler era would be there also. A place where history is tactile would be nice. As a carpenter, I'm not super sentimental about the history of the buildings themselves. I value energy efficiency over most else, and I'm not sad to see a drafty old building, no matter how pretty, be replaced by a beautiful energy efficient one.

Idea Title: Salvage and Upcycle

Idea: We see this being done all the time now with new buildings: a mural made out of the old tiles from the previous building, scrap pieces or windows that gave the old building the character it had, being used for other purposes in the new building. Plaques just don't cut it. Let's keep what we can!

Idea Title: Local

Idea: By having the school built by local Canadian (or even American) businesses rather than having it assembled in China and shipped over in modular parts.

Idea Title: Native plants

Idea: There are several groups in the area who have experts in landscaping with Native Plants. What could be more indicative of our shared history than a garden with local flora, including important indigenous medical species such as cedar and sage! We could use the landscaping as a sort of teaching garden and include domesticated European fruit trees and other hardy species to represent our shared heritage.

Idea Title: Memorial Hallway

Idea: One of the hallways can have images and display cases with memorabilia providing a glimpse into the history of the closed schools. .

Idea Title: Preserve an entrance way

Idea: In the event that King George is torn down, maintain one of the entranceways with a plaque about the history of the school. Ultimately, I think losing the history of the school is less important than wasting all the materials of the school. Again, nothing is 'green' about destroying a building that is still functioning. Fossil fuels were used to construct that school. The more we can preserve and reuse the better. That said, if the building can be repurposed that is also good. But how do we ensure the new users won't scrap it?

Idea Title: Engage with the Natural Environment

Idea: Personally, I would love to see engagement with the natural environment become a priority of both the curriculum and the design of the school. There is a lot of research supporting the benefits of engagement with nature, and many potential strategies to employ. A couple specific ones that come to mind include:- Designing nature-base playgrounds / structures (e.g. <http://www.naturalplaygrounds.ca/> - Incorporating interaction with the forested parkland that surrounds the school property! I'm no expert though! Perhaps people could include additional suggestions/resources in the comments?

Idea Title: Engage with the Natural Environment

Idea: Natural play grounds is a great idea could possible incorporate hands on vegetable growing and start a feed hungry student program of some sort.

Idea Title: Engage with the Natural Environment

Idea: We are starting a small garden this year at armour because it's such an amazing thing to have and for the children to learn from. I have wanted to do this for so long as I feel it has become lost and we need to bring it back and teach the importance of growing ones on food and also to teach how it help out the environment and our community in so many ways. Also it's so easy to incorporate into their studies and as well as help out with the community. Hopefully we can bring along what we do here and have learned and create a much larger version.

Idea Title: Engage with the Natural Environment

Idea: This is a prime opportunity to plan for a natural play space that can provide a rich environment, offering so much more than rigid and expensive play structures. There are many examples and resources to help plan an ideal natural play space.

Idea Title: Use Scandinavian education methods

Idea: There has been a wealth of research and writing in the last 50 years regarding the way children actually learn and the failings of our current models of education. The usefulness of standardized testing, discreet subjects and homework have come into question recently. The idea that children are going to learn the same things at the same time in the same ways is naive. I would like to see a school that is less concerned with the individual subjects at hand and more concerned with teaching about the real world. Children should be learning what it is adults do every day at work. They should be taught to question the information they are presented with. They should make full use of the endless information available on the internet. I always felt a powerful connection to the philosophy of John Holt, who believed that we would be better served to drop the idea of drilling information into children, and waiting for their natural and boundless curiosity to grab hold of an idea or concept, and then the teacher's role is to facilitate their own journey of learning things that are important to them. I am not naive, and realize there are forces larger than KPR involved in this decision, but we should advocate for our children and push things in this direction as we can.

Idea Title: Indigenous Teachings and Culture

Idea: Let's consult with Indigenous people and allies on how we can enhance the programming to include regular acknowledgement of the traditional territory, learning around the colonisation of this area and Anishnaabe culture appreciation.

Idea Title: Indigenous Teachings and Culture

Idea: I agree - acknowledging the history of the land, and receiving direction from local Indigenous communities on how to do this in the physical building as well as the new school's culture is of utmost importance.

Idea Title: Indigenous Teachings and Culture

Idea: Yes. Instead of trying to incorporate this later, let's start with the Anishinaabe families that are part of the school community, and the community organizations, and find out what we can do IN THE DESIGN and BUILD of the school that will honour our place in Michi-Saagig territory, and provide a welcoming and prideful place of learning for Indigenous and non-Indigenous students.

Idea Title: OUTDOOR CLASSROOM!!!

Idea: Outdoor Classroom! I have seen this concept done well in Toronto at Runnymede Public School. They have a unique "outdoor classroom" area that is in the greenspace that surrounds the school. One part of the outdoor classroom is a Peace Garden, which uses the First Nations teachings which includes the medicine wheel, some stone seats in the round and different types of gardens. Another part of it is a natural "amphitheater" for outdoor performances such as class plays. There are natural risers built into the slope of the hill that the school is on, and flat stonework for the stage on the ground. It is made in the style of Theater-in-the-Round. The final part of their outdoor classroom is a natural path in the woods that surround the school, for science experiences and lessons. It brought the school alive! It brought environmental enthusiasts to the school programs! Everyone used the space in so many innovative ways! It would be so amazing if any of this would be possible here in Peterborough! LET'S DO THIS!!! .

Idea Title: OUTDOOR CLASSROOM!!!

Idea: Outdoor classrooms are a huge part of many European education systems as well. Norway in particular has a great outdoor school design - while I don't expect us to go that far it definitely fosters environmentalism and stewardship.

Idea Title: OUTDOOR CLASSROOM!!!

Idea: Plan for outdoor classroom space that is flexible for multiple ages.

Idea Title: OUTDOOR CLASSROOM!!!

Idea: yes!!! We have heard over and over again enthusiasm for this type of learning. This new school could offer something unique not already available in the Board. And yes, there are many successful models of this already that could be followed.

Idea Title: Integration

Idea: Many parents who are against the French Immersion program are concerned that it will divide the school in a way that will economically disadvantage English-language students. I prefer my students to be educated in English because it builds stronger communication skills (particularly written communication skills) in the first language. I also understand that some parents prefer their children to have a strong working knowledge of our other national language. This should not turn into an issue where my children are somehow seen as being "low achievers" or less suited to a high quality education and stimulating activities. Split schools often create inequalities between students because of the socio-economic distinctions that frequently drive educational decision making. A well-known problem in split schools is that many of the educational and extra-curricular resources are devoted to French Immersion students. A similar split will likely occur between local and rural students due to the limited ability of rural students to participate in extra-curricular activities and to visit friends' houses after school hours. I think that the school board needs to think very carefully about how to avoid this issue and how to help build a healthy and integrated community ties across the school, where students can be educated in either of our national languages without fear of being economically discriminated against. For example, running later extracurricular buses and focusing less of performance and more on fun and promotion of team work and encouragement of skill development. Parent groups should include parents from all communities and the school should distribute all extra funding across the entire school.

Idea Title: Focus on Tech

Idea: Technology lab with dedicated lessons in robotics/coding. <https://www.fastcompany.com/3060883/the-future-of-work/why-coding-is-the-job-skill-of-the-future-for-everyone> .

Idea Title: Keep Natural Environment

Idea: Keep as much of the existing forest as possible, show children and community that it is important to steward the natural environment. Cutting down everything and replacing with manicured planting is not the same as the forest that the children have been learning and exploring in.

Idea Title: Design for Learning

Idea: Employ best practice in classroom design and materials for learning --- flexible lighting/natural light, colour choice, range of seating and work configurations. How have others been about to think outside the box, what can be learned from them? Eg., "Don't Walk in the Hallway" initiative in Alberta to get children actively and purposefully moving when they are travelling between locations within the school by hop/skipping on tiles or decals on the hall floor. The time to plan it is now!

Idea Title: The Story of School Build is Educational

Idea: The story of how this school is built can be an educational tool for students. Capturing and documenting the process of building an environmentally friendly school would be a great educational resource for students (and the community). Photos, videos, models, illustrations etc can be weaved together to tell a story that would have a real impact on students. It would be especially effective because students would experience the story in the actual finished building. What is learned in the story can be tied directly to something students interact with daily in their school. In addition to the examining the green design features that are in place, how they work, the benefits they provide etc, the story could also include the community and collaboration elements as well: how we as different stakeholders go through this process, why certain environmental design features are chosen, why others are not, etc. The story could serve as an educational tool for students as well as a case study for other Canadian communities looking to build a more environmentally friendly school.

Idea Title: Create a Calm Room

Idea: Create a safe and quiet room that all children are welcome to use when they need to take a break from noise and chaos found in the average school. Much of the anxiety felt by students is caused by the inability to get away from the sensory stimulation of the classroom/school yard. A Calm room would also help the school identify children who are being bullied or who are at risk for mental health issues. Children who are stressed/anxious and over stimulated can not achieve their maximum learning potential.

Idea Title: Create a Calm Room

Idea: Currently, there is a small room at King George which is used by a specific student as a calming room. I have seen other students who want to use this room or could benefit from it. The idea of having a calming room or multiple calm rooms is really important. It could not just be an empty room but have calming colours, sounds, bean bag chairs etc.

Idea Title: Kitchen Space

Idea: Put in a fully equipped kitchen that can be used to teach food skills/literacy, and support student nutrition and day care programs. Consult and plan fridge space for multiple programs.

Idea Title: Water Access for Students and Staff

Idea: This is such an important point. Hydration stations that supply cold, good tasting water is important to encourage hydration within the school. There is also a great opportunity here for students to learn about water conservation, rain water capture etc.

Idea Title: Water Access for Students and Staff

Idea: Being adequately hydrated is important for learning, and providing access to good tasting water is key. Put in easily accessible water filling station(s) that will encourage students and staff to use refillable water bottles and drink water throughout the day. Pilot filling station technology that tabulates the number of disposable water bottles saved by using the filling station.

Idea Title: Common Spaces

Idea: A few ideas are already posted here that would be communal space - a kitchen, a calming room... It could also be a student lounge, an art room. Create opportunities for students of different ages to interact. If these rooms exist in the school it creates possibilities. For example, if teachers want to create a project between three different grades to work together, there are spaces that encourage that.

Idea Title: Living Building Challenge

Idea: The Living Building Challenge helps designers to create buildings that are truly green and sustainable, and using the Challenge to focus on creating a school that embodies principles that will inspire the students and the community to be proud of their built environment will set an exciting and important precedent. A school built to meet the LBC (or to achieve some of the elements of the challenge) would have great curriculum opportunities built right into the fabric of the building itself.

Idea Title: Passive Solar: Use the sun to save money

Idea: In passive solar building design, windows, walls, and floors are made to collect, store, and distribute solar energy in the form of heat in the winter and reject solar heat in the summer. This is called passive solar design because, unlike active solar heating systems, it does not involve the use of mechanical and electrical devices.[1]The key to design a passive solar building is to best take advantage of the local climate performing an accurate site analysis. Elements to be considered include window placement and size, and glazing type, thermal insulation, thermal mass, and shading.[2] Passive solar design techniques can be applied most easily to new buildings, but existing buildings can be adapted or "retrofitted".

Idea Title: Passive Solar: Use the sun to save money

Idea: This idea would require the design to incorporate lots of windows, which would contribute to the feeling of 'bringing the outdoors in'. I think it would be really visually pleasing and has the potential to make the school not only more functional, but more beautiful.

Idea Title: Passive Solar: Use the sun to save money

Idea: There is a 26% faster progression in reading in schools with good day lighting and 20% faster learning in math and there are numerous studies out that show evidence that exposure to natural daylight is beneficial to your health through its effects on mood and alertness and not to mention the view that will spur creativity and imagination. Large windows to maintain the view and natural daylight is a must. Exterior shading and glazing to control glare and heat can be added.

Idea Title: Eco-School!

Idea: Let's encourage a team at the school to try and certify as an Eco-School, this way we can teach the proper waste and energy efficiency practices to our kids by way of example.

Idea Title: Solar power

Idea: You can now get solar shingles in unique designs one in particular mimics clay brick shingle the school could potentially create enough solar energy to run all electrical needs. In addition thermal ground source heating and cooling is very efficient and environmentally friendly.

Idea Title: Bermed earth and passive solar

Idea: What about taking advantage of the existing topography in the design? Using the hill in the design to boost energy efficiency. For example: where the back half of the school is built into the hill, housing possibly the basement and storage rooms, where a lack of light would not be an issue. "BERMED EARTH-SHELTERED HOMES A bermed house may be built above grade or partially below grade, with earth covering one or more walls. An "elevational" bermed design exposes one elevation or face of the house and covers the other sides" and sometimes the roof" with earth to protect and insulate the house. The exposed front of the house, usually facing south, allows the sun to light and heat the interior. The floor plan is arranged so common areas and bedrooms share light and heat from the southern exposure. This can be the least expensive and simplest way to build an earth-sheltered structure. Strategically placed skylights can ensure adequate ventilation and daylight in the northern portions of the house."

Idea Title: Bermed earth and passive solar

Idea: A green and white roof to moderate the building's temperature which can save on cooling and heating bills, wind energy generation, light harvesting technology to maintain proper lighting levels at all times and applying a lights out policy outside of school hours.

Idea Title: Solar power

Idea: Not sure if Solar Shingles that Tesla is making will be readily available by the time that the school is constructed but it makes a LOT of sense to incorporate solar power to the school. Also at Flemming there are sensor lights that remove the need to have all the lights on in the hallways and classes all the time. This would save a large amount of energy.

Idea Title: Make it the Greenest School In Canada!

Idea: There is a grid-tied, passive solar straw-bale house less than three blocks from the site of the new school. KPR should engage with The Endeavour Centre (the school that built the straw-bale place on James Street) and Generation Solar, as well as any other building science specialists to get their input. I would like to see a school that is built with LEED design principles, utilizing passive solar design to minimize heating and cooling needs. I would also like to see a sloped roof! Flat roofs always leak in the long run. There should be at least some alternative energy systems on site so the children can see an example of using modern technology to reduce our carbon footprint. Here's the bullet list though! - passive solar design- LEED design principles- solar and wind energy with grid tied power system- a highly energy efficient building - sloped roof to prevent costs of flat roof PS - I would be pleased to act as an intermediary to introduce the owners of the Endeavour Centre and Generation Solar to see if they have more specific ideas for KPR.

Idea Title: School gardens

Idea: I think that this is a great idea: however, other schools that I have been involved in have run into logistical problems trying to run an active garden program. The first issue is that it involves labour beyond that of the students, particularly during school breaks. Having a functioning vegetable garden is more work than it might seem and it requires some dedicated volunteer adults to help. The second problem is that the more popular veggies can only be grown in the summer when the kids are not present. They would need to be started at the end of the school year and then watered and tended throughout the summer. The third problem is seasonal - the gardens are dormant during much of the school year because of our climate. What about planting fruit trees, which are pretty in the spring and much easier to tend, producing fruit that is abundant and appealing to kids. I would be happy to offer my time to consult on something like this as I have some experience with it and with suitable varieties.

Idea Title: School gardens

Idea: An area for gardens, including access to water, even throughout the summer months. There is so much literature on the mental health benefits of gardening, not to mention the numerous connections to curriculum and healthy eating.

Idea Title: School gardens

Idea: Fruit trees are a great idea. An asparagus patch, hardy herb garden, and rhubarb patch would also be low-maintenance effective plantings. In the fall, fast growing cool weather crops can be grown and harvested before snowfall and garlic planted in the fall should be good to harvest at the end of the school year. I would be willing to help to establish the perennial gardens/plant the fruit trees.

Idea Title: School gardens

Idea: Fruit trees, asparagus, rhubarb are all great ideas. Plan for garden space that allows experiential environmental learning - eg. hoop house for micro-climate. Also need to plan watering access from the beginning, not as an afterthought.

Idea Title: School gardens

Idea: Hi Lisa, Have you had any experience with indoor farming the technology nowadays has increased to the point where the grow time is fast and very little time is required to farm. It still allows for a learning environment for students and as well the units can be turned off if you wish in the summer.

Idea Title: Green Space

Idea: One of the major benefits of this school is that there is undeveloped green space for the children to use. As Chris commented, energy efficiency is not the only important element for a "green school." The opportunity for them to play in grass (and sometimes mud) and trees is what I am most concerned will be lost. I understand that the "megaschool" project that is being proposed will likely mean that the use of space will need to change because of the high volume of students (another major concern, especially considering how young these students are - many studies show that high population densities fuel stress and anxiety in humans, particularly where there are strangers and a lack of cohesive community or familial structure - or class divisions along linguistic or economic lines). One thing to consider, is the possibility of creating a lightly wooded green space where children can be easily supervised, but will also have access to a wooded environment where they can continue to build forts and engage in imaginative play (one of the unique characteristics of the current facility). This past year, they kids developed their own monetary system with pine cone currencies. It was fantastic! Fruit trees could fit in here, but I think that in many ways it should be a little wild. This would go a long way in helping counter the anxiety and stress that will be inherent in the proposed demography of the new school. If we are going to have a "green school," it needs to be a true down and dirty green space. Bugs, dirt, and all. Please do not turn this into a sanitized concrete playground with a few tiny patches of grass, cemented in trees, and garden beds (although I like the idea of a garden) where kids are unable to run, roll, and wallow. Energy production is becoming increasingly efficient and low-impact, but once you drown a playground in concrete, fences and other architectural infrastructure, it is nearly impossible to go back.

Idea Title: Green Space

Idea: Yes. We need to protect the current forested area. My concern is if the old building is going to be used by a third party, and they require any extra infrastructure, plus we are building a 700-student property, this will have a huge impact on green space.

Idea Title: Build Local

Idea: yes! Shipping modular parts is not green! See <http://reframefilmfestival.ca/film/freightened-the-real-price-of-shipping/>

Idea Title: Build Local

Idea: Let's put this money back into the Canadian economy by giving local businesses and craftspeople the benefit of our tax dollars. When Trent built the DNA Building a few years ago they had crappy modular parts shipped from China. Even though it is technically "green," it also already has major structural problems (not to mention an enormous open roofs with no solar panels). There are Canadian and American architects who can build to code, creating amazing, high efficiency, and truly green spaces using materials such as shipping containers (<https://www.dezeen.com/tag/toronto/>). Perhaps one of these firms could offer slightly more competitive pricing as a form of advertising and community service. This is a very unique site because of both the natural topography and the location near the historic Lift Lock and the Peterborough Archives. We could even have someone local do the landscaping for this site using native, low maintenance wild species (<http://findnativeplants.com/canada/ontario-native-plants/> and <http://nativeplantnursery.ca/>).Wow!!!.

Idea Title: Learn from existing "green" schools

Idea: It is important to gain inspiration, advice, and strategy from existing projects that have embraced similar challenges and turned them into reality. For example, the Dr. David Suzuki Public School in Windsor, ON, which opened in 2010, is an innovative LEED-certified school and the result of an amalgamation between two schools. Since it is a demonstration site for other schools, the website details their process from start to finish, including names of architects, engineers, etc. and offers tours of their facility: <http://www.suzukipublicschool.ca/> The building includes multiple technologies for:- Light (i.e. daylight harvesting, light shelves, solar tubes, sun trackers) - Air (i.e. energy recovery, solar wall, earth tubes, living wall) - Heat (i.e. geothermal energy) - Renewable Energy (i.e. solar, wind and human-powered elements) - Water (i.e. solar hot water, rain water collection, storm water management) - Surfaces (i.e. accessible green roof, white roof, reflective concrete in yard) The building's design is filled with elements that bring the outdoors in and inspire learning (windows, for one, but also life-sized whale replicas, wings designated as 5 natural Canadian life zones (Arctic, temperate forest, great plains, etc.), and opportunities for children to physically contribute to renewable energy (stationary bikes that add energy to the grid). Lots to be inspired by, and build upon, in our own unique natural setting!

Idea Title: Learn from existing "green" schools

Idea: Incorporating green technologies (geothermal, grey water recovery, solar energy, etc) will ensure a more sustainable building as well as save money in the future. Using these technologies as a teaching tool will further enhance the environmental education of the student.

Idea Title: Learn from existing "green" schools

Idea: +1 This is a very important factor in the planning process. On March 29, 2016, when the Board voted to amalgamate the two schools, they also voted unanimously on this motion:

That any new school built on the current or possibly expanded King George site incorporates an environmental focus into the design and development and includes consultation with both the community and environmental building expertise. "

The relevant part for this thread is: "includes consultation with ... environmental building expertise"

It will hopefully be a priority of the board to seek out and hire a highly qualified expert/firm that has experience and insight on environmental design. Hiring a firm that has a successful track record and a portfolio of great design married with innovative environmental building practices is key.

They will bring a lot of insight on the items Julie mentions above. My guess is that they will have unique solutions, ideas and potentially cost saving approaches to implement many of these ideas.

Idea Title: Learn from existing "green" schools

Idea: Incorporate climate change predictions and considerations into the design --- eg. trees for cooling, air conditioning

Idea Title: Make Sustainability a Habit

Idea: Plant vegetable and pollinator gardens that include a diversity of native species including native trees and shrubs that can be used for educational purposes. mitigate excessive run-off from paved surfaces with buffer-strips. Create a green roof that includes solar panels.

Idea Title: Make Sustainability a Habit

Idea: I agree with the idea to reduce run-off volume and pollution. Build some green infrastructure (e.g. rain gardens) and rain harvesting features (e.g. rain barrels). Students can learn about urban water cycle, water conservation and on-site stormwater management right at the school. More information available at raincommunitysolutions.ca or Peterborough GreenUP.

Idea Title: Make Sustainability a Habit

Idea: I agree. Teaching the kids about producing their own food is very important. This will make it easy to discuss the importance of a strong local food system.

Idea Title: Make Sustainability a Habit

Idea: Consult with traditional Indigenous knowledge holders who carry knowledge of local plants, you could make the entire natural outdoor space a classroom full of lessons and teachings

Idea Title: Ban bringing kids in personal vehicles

Idea: How about bringing these to KPRDSB ?!! <https://www.wired.com/2011/06/pedal-powered-school-bus-cuts-kids-calories/>

Idea Title: Make Sustainability a Habit

Idea: I recognize that the Board is going to be very focused on building a school, and likely doesn't want to get involved in curriculum etc. I would propose that the Board form a committee of community members, parents and staff who can come up with some curriculum-based ideas that are impacted by building design. Then the needs of these priorities can be taken into account in the building design.

Idea Title: Ban bringing kids in personal vehicles

Idea: Children must get to school by public transit, school bus, by foot or non-motorized means. This idea costs nothing and promotes less-polluting modes of transport.

Idea Title: Ban bringing kids in personal vehicles

Idea: While in theory this sound viable I'm not sure it would work. I feel small children some of who are under 4 when they start school may have difficulty using public transit. Not something they can do alone at this age and to be accompanied by the parent who may or may not have other small children in tow could prove to be a difficulty. How would public transit be funded? Would the parents be responsible to pay not only for the child/ren but themselves as well? Many children already walk but some find it just to far even if they are in the so called 1mile range 2.2 kms an exhausting day for a small child who then still has to put in a full day at school then walk home Perhaps car pooling could be encouraged to cut down on emissions or promote electric or hybrid vehicles and scooters A vehicle plug in for electric cars to charge could be incorporated into the design.

Idea Title: Ban bringing kids in personal vehicles

Idea: In a perfect world where parents don't work and children live within walking distance of the school that would work great. For many working families the bus pickup schedule doesn't work and the children are dropped off by their parents on their way to work, which doesn't create any excess pollution.

Idea Title: Ban bringing kids in personal vehicles

Idea: While this idea isn't likely to be implemented any time soon, and disadvantages certain families as stated above, I am concerned that the infrastructure proposed for the site is privileging car travel. Parking takes up a large amount of the property in the designs we saw last year. We need to find a safe way for parents to drop their children off without using up a ton of greenspace.

Idea Title: Large windows

Idea: The Canada Green Building Council website states that the classroom environment can affect a child's academic progress by as much as 25%. There is a 26% faster progression in reading in schools with good daylighting and 20% faster learning in math. There are numerous studies out that prove that exposure to natural daylight is beneficial to health through its effects on mood and alertness. We need to keep the large windows to maintain the view and natural daylight which also encourages imagination and creativity.

Idea Title: Large windows

Idea: +1 The view (especially if the school is built further up the hill) is inspiring.

Idea Title: Emphasis Outdoor Learning Spaces

Idea: Build outdoor multi-use learning spaces and encourage classes to spend at least one class per week in the space, in all seasons (temperature permitting) .

Idea Title: Emphasis Outdoor Learning Spaces

Idea: http://www.germ-a.com/wp-content/uploads/2014/06/The_Inclusion_of_Environmental_Education_in_Science_Teacher_Education.pdf#page=138

Idea Title: Emphasis Outdoor Learning Spaces

Idea: Yes! Greening shouldn't be just about saving on energy costs - it should mean building in a way that will facilitate outdoor learning and nature connection. This does not need to be a huge extra cost. It can involve community participation and green building students and the school council can help fundraise. But it needs to be considered as part of the building design and not an after thought.

Idea Title: Become part of Armour Hill

Idea: This is a good idea - work with the topography. Building into the hill will make the building more naturally insulated -- another environmental factor.

Idea Title: Become part of Armour Hill

Idea: Also see Scott House at Catharine Parr Traill College. It has been built into the hill. A multi-level building with parking at the top of the hill.

Idea Title: Plan Active Transportation Routes

Idea: From the beginning design phase (rather than trying to retrofit) plan active transportation infrastructure including bike lane, sidewalks, adequate and secure bike parking, planned separation of traffic and pedestrians.

Idea Title: Good design is an environmental factor

Idea: A community member named Martha stated in the main forum: An environmentally friendly school is not one that is just efficient, but one that takes into account the environment in the school. How will the children feel, learn, excel in the environment. I could not agree more. Other people have mentioned the features of the property: the hill, the view, the forest. Along with the building itself, these are all factors that can promote a feeling of well-being for the students and staff. Design matters. Also, the more aesthetically pleasing the school is, the more of a draw it is for prospective families -- attracting more students is something the KPRDSB highlighted during the ARC process as a priority. A well designed school would be attractive from the street as well and fit with the other special buildings in the area (Liftlock, new Canoe Museum, Wesclox). While it is not the mandate of the board to cater to the community as such, an inspiring school building is an environmental factor for the local community as well.

Idea Title: KEEP THE FOREST - and the old building

Idea: We must use the current cleared area to build the new school. Or purchase land from the city that is adjacent to the top of the property. We can't call this a green school if it destroys some of the only forest accessible to elementary school kids during their recesses. I actually think we should petition the ministry to allow the continued use of the old building. The new building could be smaller in scale and house the older students. The two buildings could share facilities such as the library and gym. This would also be much better for student mental health. Mega-schools are shown to be stressful - especially for the little ones. Otherwise, repurposing the current school while simultaneously building a 700-student school will inevitably use up valuable greenspace.

Idea: the new school is supposed to be a French-English split: however, many of us parents who would prefer to educate our children in English are concerned about the repercussions that this will have on the community. I think that since the school district is adamant about going forward with this, despite the fact that many of the parents do not want it, they need to address issues such as equality in educational opportunities.

Idea: Currently Camp Kawartha is working with Public Health, Otonabee Region Conservation Authority, Educators and a host of community organizations on an environmental framework for this region. Called the Pathway to Stewardship www.campkawartha.ca/pathway-to-stewardship this approach has emerged out of the thoughts of 75 community leaders and from an overview of current educational research in environmental education. We thought as a new Green School, the school community might be interested in collaborating with us perhaps in a pilot study. The document outlines key stewardship principles and benchmarks children should be given the opportunity to achieve throughout their development. We have received funding from the Ontario Trillium Foundation and are looking for community partners. The Pathway to Stewardship is being featured in a Chapter of the World Watch Institute's State of the World's upcoming book called Earth Ed.

Idea: I would like to see the design acknowledge that "green" means more than energy efficient. Pursuing energy efficiency is definitely worthwhile, but having the school meet high standards for indoor environment quality (exclusion of toxic materials and finishes), low embodied carbon, excellent daylighting, use of rainwater and greywater, renewable energy and other aspects of sustainability would be great. There are many possibilities to have the building design and its green systems be an integral part of student life and the curriculum of the school.

Idea: Incorporate shared history by taking some of the old building bricks, tiles, memorabilia and glass and using it in small areas around the new school, using Canadian people who live in our city to build the school, using local tradesmen and women in the design.

Idea: A building following similar principles to the Environment Centre is the kind of thing that would be a wonderful feature for Peterborough in its own right but also a great example to the rest of the country of what is possible in school design. Every single aspect of the building needs to be considered from an environmental perspective--as Chris says, not just energy efficiency. What about adding composting toilets to the mix? It seems out there now but as water becomes more of an issue it will prove its worth.

Idea: One thing we might want to consider is re-engaging the innovative local company Endeavor (<http://endeavourcentre.org/>), who designed/built the Environment Centre. This could be a great way for Peterborough to continue to show leadership on this front and also support a local business. (Side note: innovative environmental design seems to be one of Peterborough's strengths, and so investment in this area seems to be particularly advantageous from every angle.)

Idea: A sustainable and healthy school is one that uses resources and energy efficiently, encourages healthy lifestyles by incorporating healthy nutrition and physical fitness. A school should create an atmosphere of acceptance, an appreciation for cultural diversity, and the importance of a healthy environment. A Sustainable school integrates itself ecologically into the landscape of the area. A French Immersion program is also a valuable resource, which opens many doors for children.

Idea: It would be so wonderful if this new school engaged the First Nations community and worked from a traditional knowledge base for creating an environmentally friendly space in a natural setting. Acknowledge and celebrate that this school will be within Mississauga Territory and create a unique learning space for all students to learn and engage with the land they live on. Also, there is a need for language immersion in this city and this is a great opportunity to create spaces for Anishinaabemowin (Ojibway language) at a young age. Peterborough is such an amazing community, and KPRDSB has a chance to set the stage here to become a model school for meaningful reconciliation and Indigenization.

Idea: Indoor farming will not only provide fresh, healthy food for the students it will create a teaching environment for sustainable living for these students and the community. It could also be used as a business model for the school to generate extra income by selling fresh produce within the community. I would be pleased to share further information on how to do this if interested.

Idea: Given that the current school and the new proposed site is at the top of a drumlin, with amazing solar exposure, I think the main focus on the sustainability/energy efficiency of the building should be incorporating passive/active solar/natural lighting. Geothermal heating/cooling should be up there as well due to the abundance of space available to install a system of that size. These elements are very viable since they have all been used for years now and contractors/architects/designers are familiar with them and can price accurately. Also, a high efficiency ventilation system would be a necessity to ensure a high air quality for our developing minds & lungs, and to ensure that the effects of the inevitable off-gassing of new building materials would be minimized. Lastly, keeping or enhancing the magical views that the current school offers is key!!! Its such a great opportunity to teach about Peterborough's geographical location, the geological forces that shaped it, and how we are connected to the rest of the world by the water system that runs through our city... as well as urbanization and the effects that come with it.
