

Hi I'm Keiji I am going to talk about 6 different things 3 of which are to help save the environment.

A part of our roof is glass so the sun's beams go through the glass and into the roof top garden. That's right a roof top garden. This will teach kids on how to be more eco friendly and also teach them to eat more vegetables. The roof top garden helps keep the school warm in the winter and cool during the summer. We would grow our own vegetables for the cafeteria and learn biology.

Our roof is kind of like a streamline shape for two reasons. First the wind will hit the school and go around the roof because its streamline, and behind the school there two are wind turbines. So if we get lots of wind we get lots of energy. The energy covers 70% of our schools electricity and the energy would be used to light the classrooms. Second if it rains or snows the rain will fall off the roof because its curvy and the rain will fall in the eavesdrops. The eavesdrops are connected to the boiler room so the boiler room will heat it the water and clean the water. The water will be used to help flush the toilets and water the roof top garden. There would be eavesdrops on every building.

And our model is made out of recycled materials. NO money was spent during the making of the model. So we just went through our recycling bins and we found as much recyclable materials as possible. Cardboard boxes, pop boxes and tissue boxes were all from the recycling bin.

On the floor we would have lines that would direct us to our classes. Like blue line goes to Science and yellow line goes to band. We would have all the noisy classes down stairs and up stairs would be all the quiet classes. Fire extinguishers would be in every classroom. A ramp and elevator would be installed for the disabled. And for the drama room there would be a wall and then the gym. But the wall would be sound proof.

Hello everyone my name is Jeong Ung and I am going to tell you about four to five feature that we have included in our school. Many new buildings have new technology and right now we want to make a school that has many new features such as

Turning floor

Our school's middle floor turns. It turns by our wind turbine which is located at north of our building. The middle floor only turns at morning (6:00 am), noon and at night (6:00 pm). Point of this is to have rooms with view such as cafeteria and library. The floor only turns about at 1 meter per second (normal man walking) so people does not have motion sickness. Another thing is that the solar panels near second floor follow the sun light to get maximum energy (30% of our entire environmental energy.)

Facing South Classroom

Since we have solar panels at our spinning second floor our main classroom are face at south to get lot of sunlight for both energy and light. Kika is going to talk to you more about that.

Touchable Lockers

One of our greatest technologies would be our touchable lockers to help students be more organized. Our locker has touch pad inside of the locker to tell you what time it is, your schedule, telling your homework , check if you are late or absent, scan your excuse to office and much more.

Community Access

Our school's community access is something not to forget. We have many rooms in community such as indoor ice rink, wide gym for martial art, quiet small space for dance and yoga, and an open gym. Inside school we have a small movie theater that is open at most weekend to make people watch old or new movies for free. It has large daycare for young people near the place. It has accessible parking lot for every people who use the community center.

Large Gym

The fifth item that I want to talk about is our gymnasium. It's attach to the both community center and the school. It's large enough to hold many classes. It's open to anyone after school. The roof is curved to gather rain water an snow Keiji's will talk to you about that. We will have mult-activity room for many activities such as wrestling, table tennis and gymnastic. Our gym has storage room, wash room, change room and drama room with sound proof wall.

Our estimated budget is thirty million to 50 million including our gym and community center. It's because that ice rink and rotating building is quite costly but our eco friendly features will lower our electricity bill and our ice rink cost money to go in.

So if we build the community center first we are going to gain money.

Introduction

Hello! My name is Kika and I will do the final properties of our school. I will talk about 7 design features of our model. The 7 features are: Building shape, adjustable solar panels, light shelves, the light tube, aerogel insulation, windows and ventilation. The first feature is...

Building Shape

The circular shape of our building for various reasons. The wind comes from many directions. With our wind turbines located north of our school, no matter the direction of the wind, our turbines will collect it. Air is like fluid. When it comes towards the school, it will curve according to the shape and the wind turbines in the north will collect the wind as it approaches; powering few resources of our school.

Adjustable Solar Panels

Our school also has adjustable solar panels. As the second floor of our school rotates, the solar panels follow the sun's path, capturing as much solar energy as possible. The solar panels installed in our school, also move so that during the winter when the sun's rays are lower in the sky, our solar panels can also absorb that energy. During the night, our solar panels slide into our school so that they are not damaged by snow, bad weather or vandalism. Solar panels also power many functions around the school.

Light Shelf

On the second floor of our three-story school, opposite the solar panels we have light shelves. The solar panels are installed outside the windows of the school and the light shelves are on the inside. The sun, during the day, moves from the south towards west and finally approaches the north. In order to get light on the other side of our school, we have installed light shelves. Light shelves let light that is captured by our solar panels bounce off the ceiling to reach the other side of our school. This allows light from one side of our school also reach the other.

Light tube

In the center of our school we have what we call a light tube. The light tube is a tube of that is displayed in all three stories of our school. It goes straight up and reaches the rooftop garden. At the bottom of our tube we have various trees and plants and ivy crawls up the walls. The light tube is like a courtyard in our school. Since the light tube is made of transparent material, students in the cafeteria on the second floor can also view the light tube. The light tube can be accessed on the main, second, and third floor where

students can explore plants inside. The light tube maximizes the amount of daylight in the school, like the light shelves. As the sun's rays reaches the light tube, the transparent material it is made of will let the light that it captures reach the other side of the school. The light tube is also divided into the three sections, so that the second floor can rotate with the light tube.

Aerogel Insulation

Nicknamed: frozen smoke, blue smoke, solid smoke, and solid air, aerogel possesses the lowest bulk density of any known porous solid. With such low density aerogel is translucent though it feels like Styrofoam to touch. Aerogel is rigid, dry material despite its deceiving name. Aerogel is very strong structurally. Aerogel is also well suited for insulation and is 100% recyclable (the thermablock material). Aerogel can last for long periods of time and keeps away moisture, mould and water and also reduces noise pollution. Therefore, our insulation provides good warmth and protection during harsh winters and blocks mould, and water from the school.

Windows

High windows in our school cannot be easily reached. During sunny summer days, the sun's rays enter the classroom and make it hard for students to see or concentrate. They also pose a threat during warm days because they cannot be reached to let open for fresh air. Another obstacle is that these windows don't provide sunlight throughout the day for a brighter classroom. Large windows may not be the answer. Large windows can create larger rays that affect the students and need very large blinds or curtains. We decided we would have sky roofs. Sky roofs are very efficient because they create a brighter classroom. Sky roofs also give a large map of the sky that may help sooth students during learning.

Ventilation

Ventilation is also a big part of building structure. Dust, mould and other terrible things can be prevented with good air ventilation. We decided that good ventilation is an important part of our school. We will use very airy ventilation to remove dust and mould. We will also have frequent maintenance to keep all ventilation clean. Airy ventilation also helps students who have trouble breathing to clear their lungs.