

Carnegie Steel Factory

With rooftop hot rocks sauna

We named our construction Carnegie Steel because we know of a famous man who was huge in the steel industry, and his company was named Carnegie steel. His name was Andrew Carnegie.

We also made a rooftop hot rocks sauna on the roof for the workers to relax after a hard day's work. it is heated up by the steam from the cooling process of steel.



The smokestacks also produce energy from the movement of smoke. there are also green sticks on the sides of one of the smokestacks. they are there because they are producing energy from heat. Also have a windmill next to the factory to create power for 1/8th of the factory. Our steel boilers achieve ignition. Ignition is to power something giving it fuel once, then it can sustain itself forever without losing energy. Thank you for coming to Terrace Town, and we hope you have a nice day!



D.A.R.P.A.

D.A.R.P.A. stands for Defense Advanced Research Projects Association of our city to defend from giant fire breathing snakes or other potential calamities.

Below is the log and their latest project: **THE ATLAS ROBOT!!!**



This robot will increase the percentage of all search and rescue missions' success! All of their materials are recycled objects. One of the eco friendly features are its partnership with P.E.O.G., from which it uses the excess energy. (see p.e.o.g.) Its solar panels face east and west to get more energy in the morning and night and solar coils on the top for mid-day.



D-Wave

By Simon

D-Wave is a company that designs quantum computers. It's really hard to explain quantum computers, but think of this: a regular computer can do about eight calculations at once. A quantum computer can do 2^{512} of calculations at once. That's more than there are atoms in the universe!!!! This is because *one bit* can do two calculations at once and *that* is because ... well... one quantum particle can be in two different places at one time. (weird!) So one *quantum* bit can do two calculations at once.

D-Wave is a real place and really does design quantum computers. It is located in a small town called Burnaby, in Canada. So check it out for more details!



Green Grass Elementary

By: Lata, Grace, Sunita and Aileen

We made a school called Green Grass Elementary (as you can see above). It has rooftop and balcony gardens. This is good for the environment because you don't cut down any green plants. It saves the environment and others animals. If you have your own garden, you can also grow your own plants.

It also has a peaceful pond. This pond gives animals that live in ponds a place to stay, and not be endangered! This pond helps animals too! That is great!

The people who go to this school learn how to treat the environment well, and to not litter. The school collects energy with solar panels that protect the environment. This is not during learning like math, reading or writing, they learn how to treat the earth well during their free time. This is an optional choice, but we hope that everybody in Green Grass Elementary will choose to spend a little of their free time and learn how to garden and take care of plants.

So here is an image of what the school looks like:



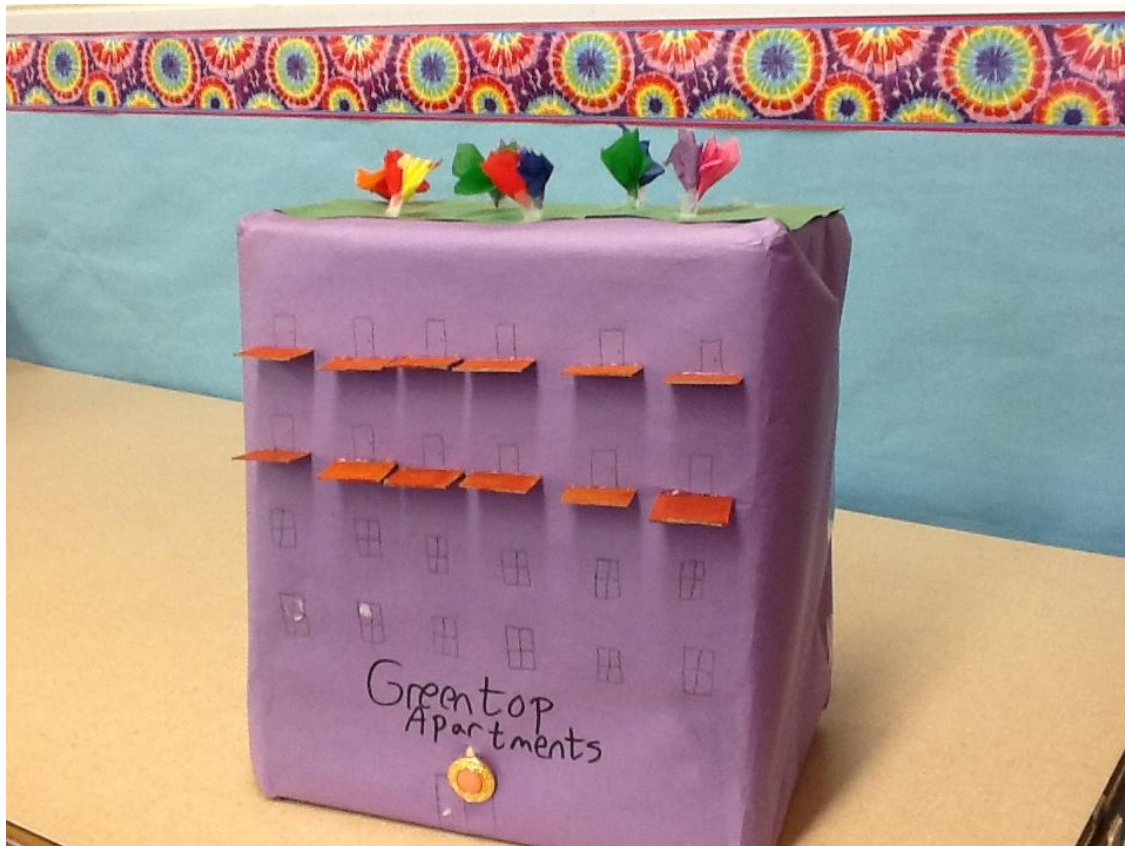
Greentop Apartment

By Grace and Rosie

We made an apartment building for our project. The green feature about this living space is that it has a wonderful rooftop garden! It has flowers, veggies, and much, much, more!

Everyone in Greentop Apartments has either a balcony or large window in their apartment. They can look out their window or stand on their balcony. Just a nice touch to the building, Greentop Apartment also happens to be purple!

There are solar panels on the roof, which provide the electricity in the building including the lights, water and entertainment like television. The solar panels on the roof help save money, too.



In Step Nano

By Simon

In Step Nano is a company that makes shoes that can charge your phone. When you walk, you generate energy from the motion of walking (actually that should have an exclamation mark!). *And guess what?* This company really exists right here in Madison!! The power comes from the sole of the shoe. Inside the sole is a packet, shown below. Inside that are lots of micro bits. That's what collects the energy. For more details, go to www.InStepNanoPower.com!

But if you were to be visiting our Terrace Town, then go to Eco's shoe store-- they sell them. See you there! (I hope!)



See? That's
an In Step Nano
shoe!



**P.S. This
gives you a good reason to exercise!**

LARRY'S TOWN WATER FILTER

by Grace

Larry's Town Water Filter is a giant water filter that takes water from a river, lake, or pond, and cleans it, just like how any filter would. There is a tube that sucks the water into the filter so it can clean it. There will be some wood, fish, and plants that are present when the tube sucks the water. Those things are separated from the filter. Then, the filter gets heated up, which then turns the water into vapor. Some of the vapor powers a generator that powers the building, which repeats the whole cycle again. Then the water is collected again when it's done condensing.

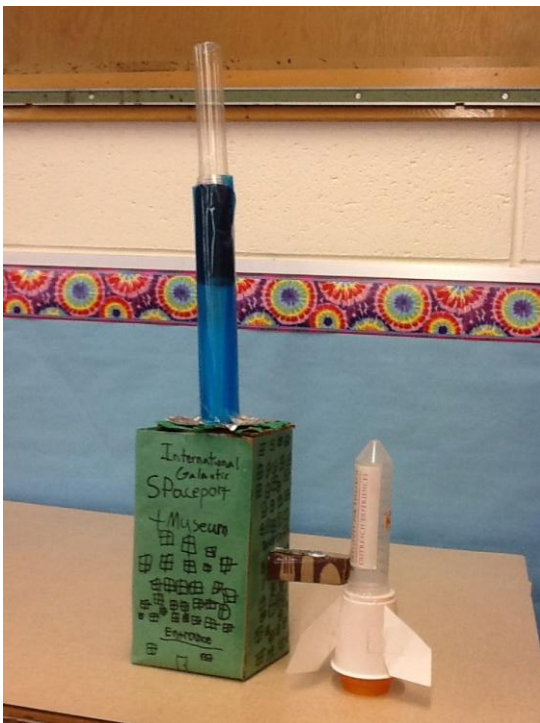


And that is how the water is filtered in Larry's Town Water Filter, and that is why our citizens in Terrace Town drink clean and fresh water!

International Galactic Spaceport Museum

*Up to the moon!!
By A wonder and Chris*

We built a spaceport and a space museum. I'm sure you know what a museum is, but you might be wondering "What is a spaceport?" Well, a spaceport is a port where you launch rockets and other spacecraft probes, and the occasional new rover. Rockets don't only launch from there, but also land. Our rocket would be approximately 80 ft. I'm sure you are wondering, "Well, um, the Saturn V rocket was more than 4.5 times taller and whereas our rocket's width is approximately 8 ft, the Saturn V is 11 meters. But the reason our rocket is so small is because the mission of a spaceport is to bring an amateur astronaut into space. Another reason is because our city doesn't have a big population. In addition, if you're wondering about the huge "smokestack," it actually happens to be a high powered telescope, which could turn around with a simple control. The telescope is designed to zoom in and out. That would mean that instead of giving a wide range, it would be able to detect dust particles, and to view stars close up, which would only be allowed by super powerful telescopes in space such as the Hubble telescope, and Fermi gamma-ray space telescope. If you zoom out the telescope to the maximum, you will be able to see everything in the galaxy except black holes! Zooming in to the maximum will make you able to see planets very clearly. But the people who look in the telescope must be careful to not look directly at a star, because they may blind themselves if they look directly at stars!



For some reason, our spaceport is higher than our rocket. Our rocket needs lots of energy so we made the roof covered with solar panels. The spaceport we built has a storage room which is filled with bloom boxes. The people that work there send the energy the solar panels collect to charge the bloom boxes, and make sure to put tons of bloom boxes in the rocket for every flight.

The spaceport will do flights at \$5000 for 30 minutes in space. I know that's a lot cheaper than they actually cost. They actually charge \$200,000 for five minutes. This spaceport only charges 1/40 of the real amount for 6 times the amount of time in space! Therefore, our spaceport charges less money for more time!

Presenting...

The

Japanese Water Garden

Written (about and built) by Raia and Seegz



The Japanese Water Garden is a nice place to relax, because it is eco-friendly and peaceful. It will be secluded from the city noise and commotion by the ring of hedges all around the edges. There are lots of streams channeled off from the lake, and paved paths all over, so it is 100% wheelchair accessible and 99% people-who-do-not-want-to-trip-and-fall-accessible. There are plenty of benches with a great view of the scenery, along with 2 small ponds. There are also many solar stone lamps that will light up when it is dark and will make the garden open at any time. And finally, there is a pagoda on a platform on one of the lakes that will provide shelter and rest in case of storms and rain. If you like a peaceful, quiet environment where you can relax, or want to have lunch with your buddies in a place where you can hang out together, then the Japanese Water Garden is for you!

Lombardi Towers

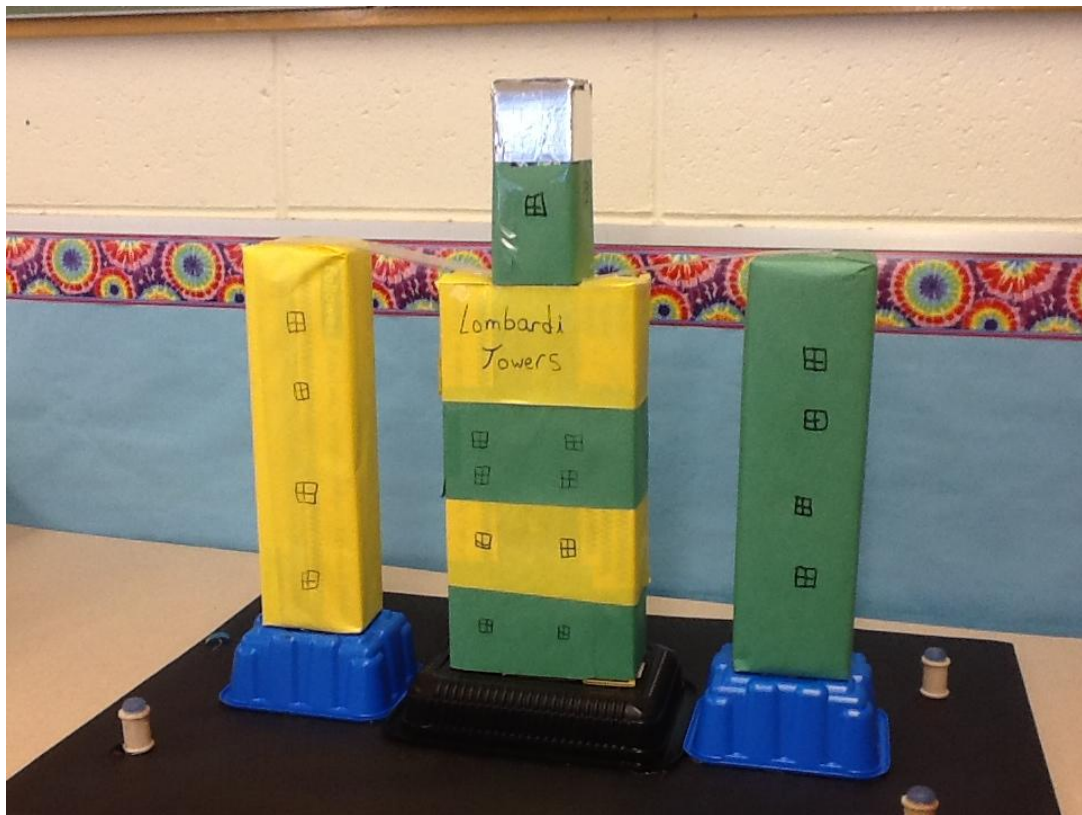
By Simon and Jordan

The Lombardi Towers (or the “Green Bay Packers Headquarters”) is the place where trophies, medals and famous jerseys are kept for the Green Bay Packers like a museum. Naturally, it is a big tourist attraction.

This was originally going to be an office building, but our teacher gave us the idea to make it into The Lombardi Towers.

Because it is so big, some of the top floors *are* offices, but most of the space is used up with trophies and stuff.

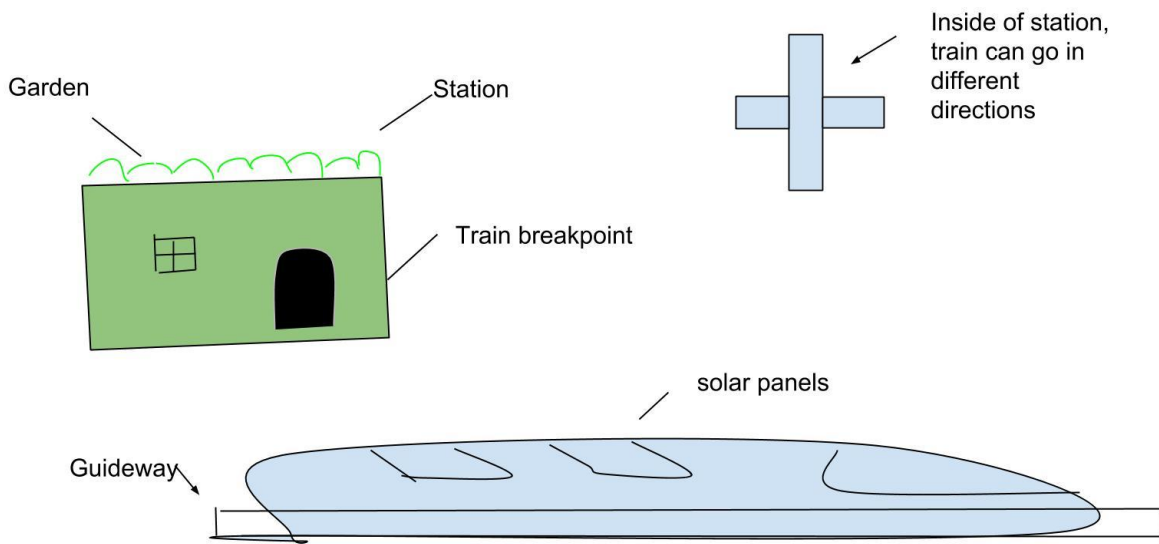
This place is eco-friendly because there is a gym where when you run across the floor, it collects energy. Also, if you aren’t a huge sports fan you can walk on a clear walkway super high up in the air and definitely look down! (P.S. The guide rails are there for a purpose...)!



MAGNETIC LEVITATION STATION

Otherwise known as the One and Only Grand Central SCMAGLEV Station...

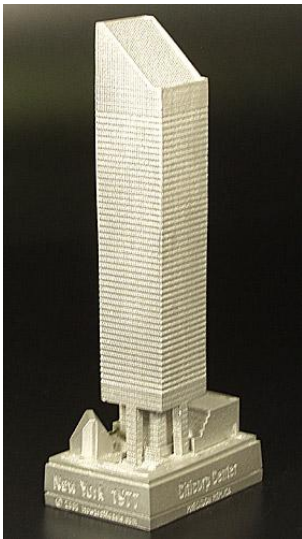
The maglev train by itself is a solar powered high speed train (The way we designed it) that runs by magnets in the guideway or "tracks." The station is just like a regular train station, but it includes a rooftop garden which makes it eco friendly. It may look like a small box, but it has a large purpose. Most of the other stations are underground like some of the subway stations in New York.



Bigfoot Town Central

by Charles and Dani

The Bigfoot Town Central is one of the biggest buildings in Terrace Town. Wow, King Kong! New climb. With the vertical bungee system people could get to the top of the town central in one second. With the stilts on the Town Central it makes it the weirdest building in terrace town. The rocket on the top makes it really cool. It collects its own fuel for the rocket by solar energy and hydrogen collector. There is a 5 star Las Vegas style restaurant and hotel. The stoves run on the rocket fuel. The hotels air conditioner runs on Bloom box and solar panels. The things that makes it green are the solar panels, hydrogen collectors and the bloombox.



This is the building that inspired us because it's built on stilts.



Make some noise for the Avocadoooooooooooooooooos!!!!

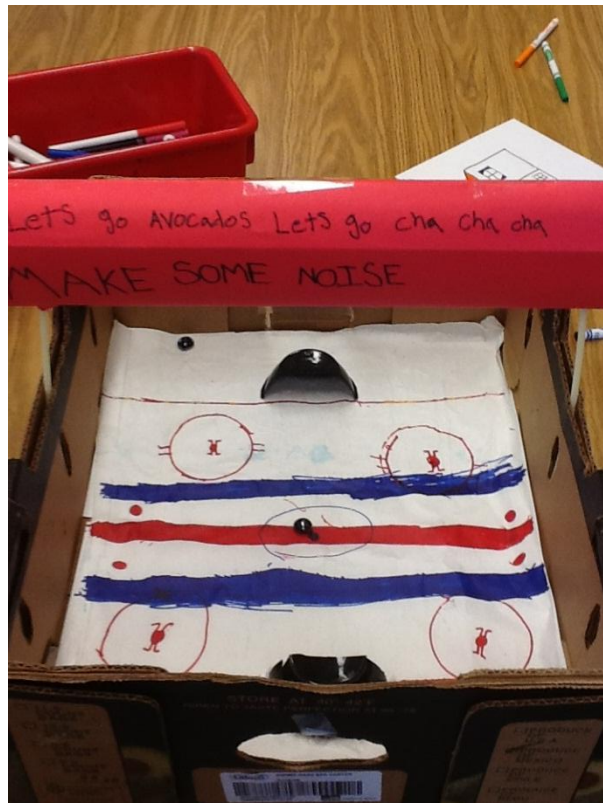
By Jeremiah, Torii, and Yosef

The hockey stadium, called the Avocadium by its fans, has green features like its mascot (the avocado). Just kidding! What I'm thinking about is the color green. Here are the real green features:

- exhibit A- The concession stand has a mini garden that has food that you can pick.
- exhibit B,- When you have to go the lavatory, the toilet water comes from the melted ice from the zamboni.
- exhibit C - The ceiling has a thick layer of glass that can open and close to let rain in so it can be frozen and used for ice.

For a challenge, see if you can find the Avocadium in Terrace Town!

GOOD LUCK!



Murrays Dentist

By Eja and Batool.

If you look up “Patriotic” in the dictionary the definition would simply be “Murray”. He owns a parrot named Barack Obama and 17 cats with they are named stuff like: “George Washington” and “Lincoln” “Come here, Martin Luther King Jr!” Along with the red white and blue flowers with matching pots!

Murray owns a hot pink dentist office. On the roof, Murray has put a sparkly sign thats says “Murray’s Dentist” accompanied by a toothbrush and toothpaste. He enjoys gardening, so he has a red white and blue rooftop garden for a “Gardening hobby.” But we all know the truth, its more than just a “hobby” it’s another totally green feature to this year’s Terrace Town!



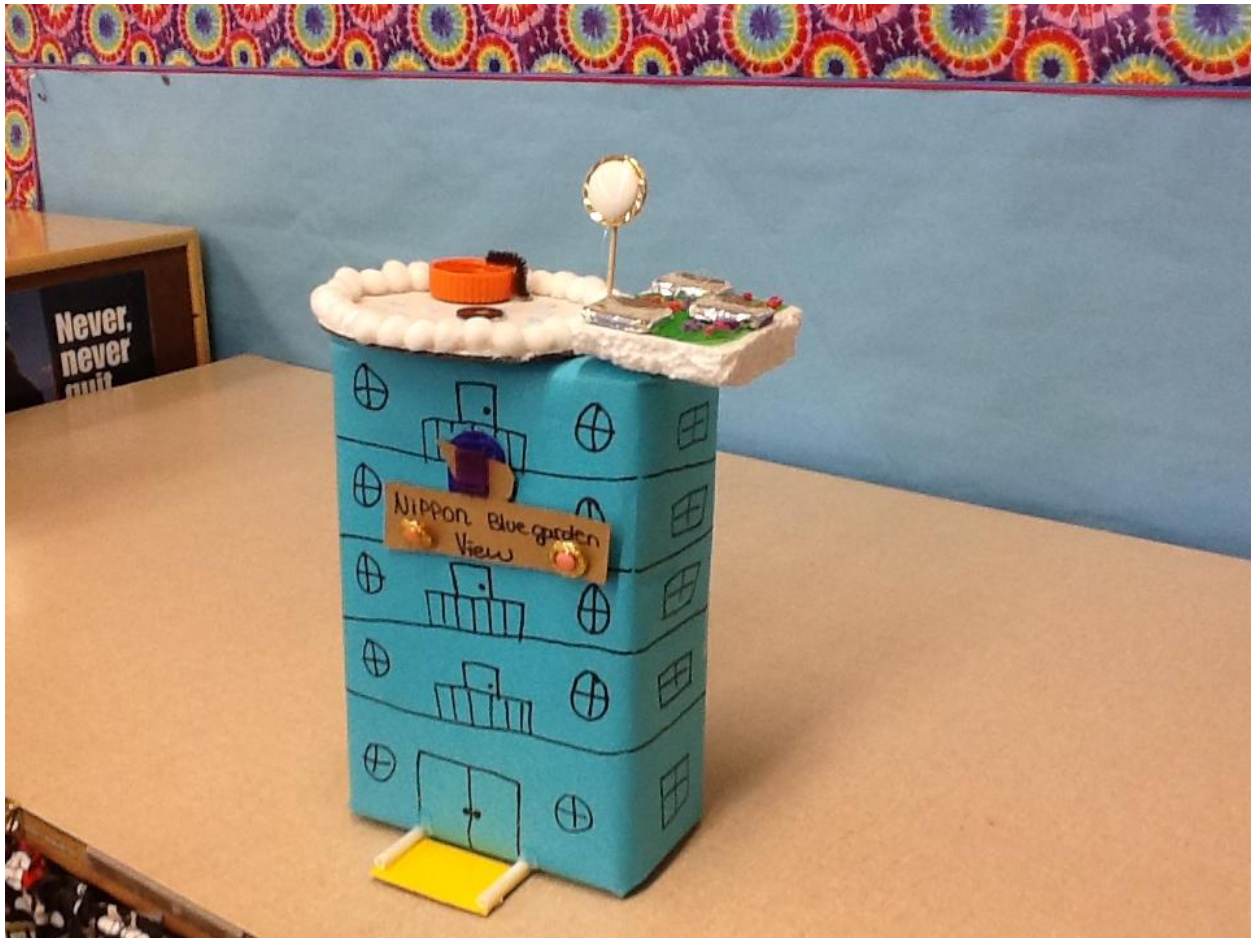
Nippon Bluegarden View

By : Nana, Monona, and Hayato

Nippon means Japan in Japanese. This building provides a pool and rooftop garden that has 3 kinds of roses. The flowers are made out of colored paper that is crinkled by hand. The brown pipe cleaner is a diving board for the pool.

The whole building is net-zero and powered by solar panels. The solar panels are aluminum foil-wrapped buttons. The guard rails are made out of 33 cotton balls so when people bump the guard rail, they will not have much impact to their body and they won't fall off the roof (unless they climb onto the rail and jump). The sign for the building has 2 kinds, a spring version and a regular version. The spring version has a flower-shaped button, and the regular version has 2 golden buttons.

We hope the people that live at Terrace Town will enjoy this building.



Nuclear X-Men Generator...

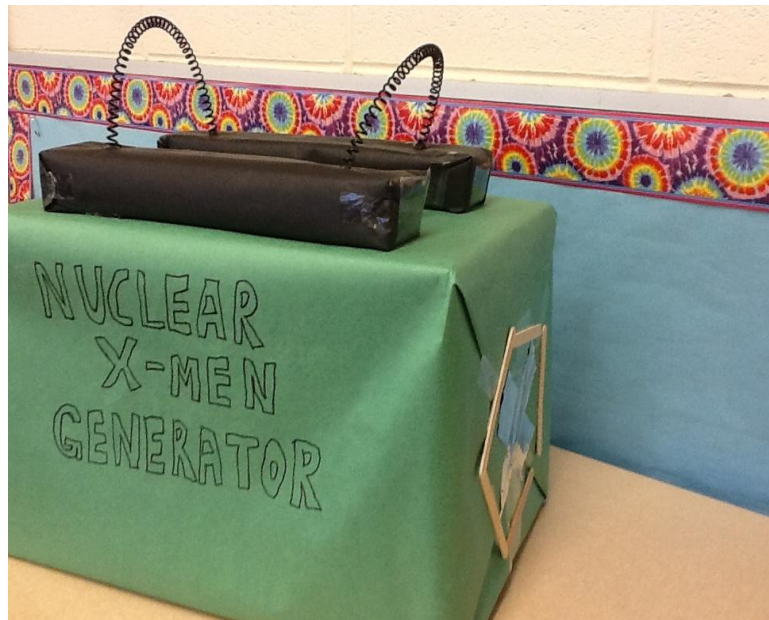
by Doug and Frank

The Nuclear X-men Generator creates X-men, then fuses X-men together and absorbs their nuclear power. Basically it is a Nuclear power plant that uses X-men! Inside it is a nuclear reactor that resembles the shape of the ITER in France (International Thermonuclear Experimental Reactor A.K.A. the mega mutant). It harnesses the *energy of* the nuclear fusion of the 2 Hydrogen Atoms (the X-man). Fusing 2 atoms needs a lot of energy but the energy released is a lot more than the input energy.

The ITER is a very complicated science idea but is also a very good alternative. Most people have heard about nuclear fission which is the action of taking apart an atom. But when nuclear fission takes place, a lot of dangerous radioactivity is released. That is why we use nuclear fusion. It is very safe.

ITER has a lot of parts that work together to make an efficient machine. There is all the mechanics in the diagnostics needed to do this complicated procedure. The diagnostic control, evaluate and optimize the plasma. The diagnostics is different from any other diagnostics because it has to cope with the harsh conditions of the vacuum vessel. The vacuum vessel houses the plasma during the nuclear fusion and provides an enclosed, vacuum environment. To fuse the 2 Atoms (the X-man), there are superconductors and magnets that surround it. The Plasma (the mutant) had to be heated to extremely high temperature. The superconductor (The person who conducts the X-men) has to be at super cold temperature. And that takes a lot of energy itself. After the energy is released and harnessed and some tritium atoms (rare hydrogen atoms) are collected by the divertor , the internal wall of the vacuum vessel must be cooled to 240 degrees Celsius (X-MEN!!!!) from the 150 million degrees plasma.

The reactor has a vacuum environment which is reached using a vacuum system. **-Its an efficient way to get a lot of energy-**. The power plant doesn't have any smokestacks, and no greenhouse gases are released. There are laboratories on the top that do further research in fusion and help keep it running. The coils are for further research but little energy is lost. The coils are made from stanene, which is a layer of tin one atom thick. It is a superconductor at room temperature which doesn't lose a lot of energy when moving through the coil. The big X with a pentagon around it is our symbol.



Presenting the...
Black Eyes Football Stadium!!

By Torii and Aiden

The Black Eyes team name comes from the fact that our team is known for our defense. Why? Because the other team can not throw without our defense sacking the quarterback, batting the ball down, or intercepting (oh yeah)!

Fan Shop

On the right side of the 3rd floor of the stadium there is a fan shop for the Black Eyes. We sell mugs, glasses, key chains, helmets and lots more!



Concessions/Restaurants

There is a Mini Buffalo Wild Wing and there is also a mini McDonalds but we can't forget about Little Caesars. The concessions are on the second floor (closer to the stadium). The foods we have are pretzels, hot dogs, candy, soda, pizza, chips with cheese and lots more!

Lots of people want to become a Black Eye. Why? There is an underground pool, spa, and a hot tub just for the players use!

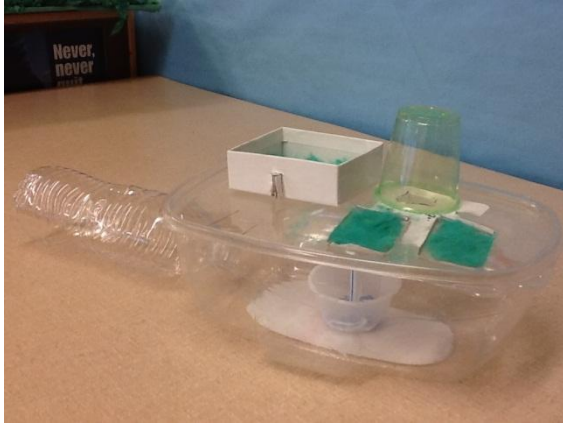
How it is Green

On the top of the stadium there is a green roof with televisions to watch the game instead of looking down at the game from the stands.

SUNLIGHT NATURE CENTER

by: Emma

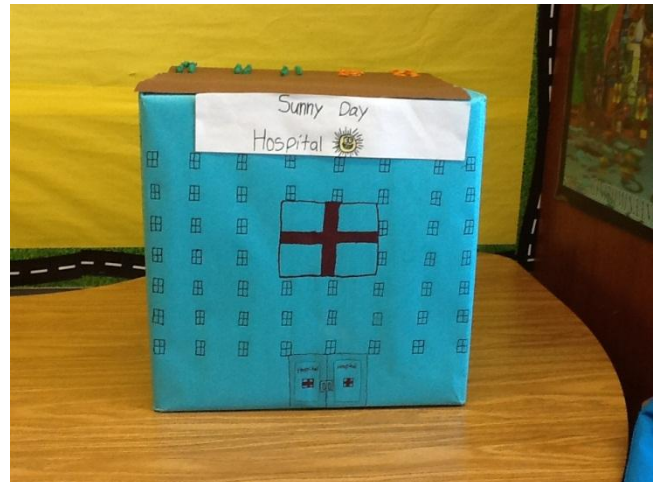
Light filters through the transparent walls of the Sunlight Nature Center. This multi-use building holds a magnificent towering fountain and a reference desk inside. The entrance is a round, slippery tunnel - also known as instant fun, with padding on the floor. The rooftop garden contains an enclosed lookout dome for bad weather, two amazing garden beds, and a walled in courtyard with a small door and springing plants lining the inside. It's a warm place to talk and garden with friends!



SUNNY DAY HOSPITAL

By Devron

The sunny day hospital has a carpet that collects static electricity. When people walk on the carpet it powers the building. On top of the hospital there is a rooftop garden. That has eggplants, peas, kale, lettuce, etc. Now when you think of hospital food you think about disgusting jello. But this hospital has healthy tasty salads where you can make your own, or choose from a menu. There is also an occasional free fitness class for patients who are done with an operation and want to get fit and healthy again. For the elderly patients there will be a relaxing library.



Supar

By Simon



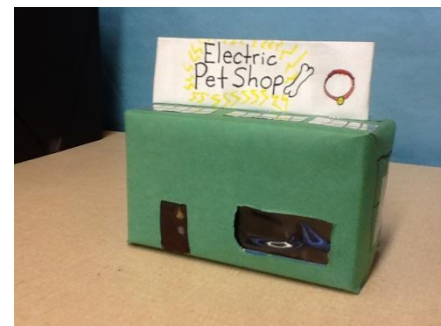
Supar is a company that designs computer software. Now, to some, this may sound really boring, but inside you can find amazing architecture, cool paintings, and one huge slide that collects static electricity as you slide down it. Another eco-friendly feature is that the hallways and stairways collect energy as you walk in them. Another key feature to this building is that part of it is under ground. So really a lot is in this building. (You just may not see that from the outside).

The overall goal is to make going to work not to boring. Come and visit to see if we succeeded!

The Electric Pet Shop

(where animals don't get electrocuted)

By: Kyra and Mattie



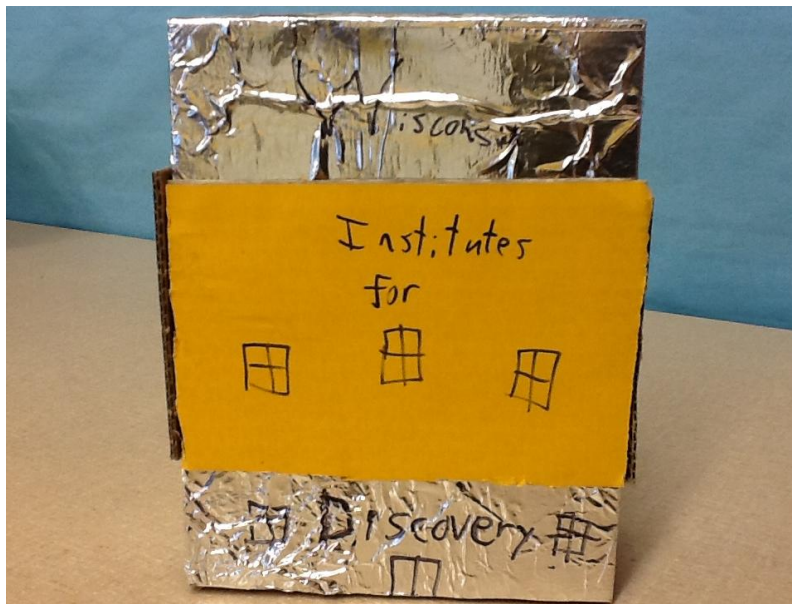
In this pet shop people can adopt stray or non-stray animals. Inside, the floor is covered in carpet and animals can roam free (we hope people watch where they step). So when a person or animal walks on the carpet, it creates static electricity. The static electricity is used to power the lights and other things like heating and cooling the building. Because the pet shop has soooo many pets, they donate all the animal excrement (dung) to the local farm. Some animals like lizards, tarantulas and small animals like that are kept in their cages so they don't get hurt by being stepped on or eaten by a larger animal. In front of the door there is gate tall enough so animals can't get out but short enough that people can still step over it.

The W.I.D.

By Nathaniel and Ian

W.I.D. stands for Wisconsin Institutes for Discovery. To save a lot of space on this page, we'll call it the WID. Wid'you think of that? I hope you're ok with that.

The WID is a health-based research center on the campus. Why is it plural? Because, there are 2 institutes! One question you might have is, "What are these two institutes for, anyways?" The answer when we come back (Just kidding)! One of them is the Morgridge Institute for Research, which is privately funded. The other is just, "The Wisconsin Institute for Discovery." (I honestly think there *could* have been a better name there.) The 2 institutes are roommates. Together, they work as a town center.



Now, what's this "town center" about?

First off, the design plot for the center was structured from philosophy from a lil' somethin' ca-wled the Wisconsin Idea. (That has a lot to do with all sorts of government stuff that's much too much to mu- er, um, explain.) If you want to really learn about the Wisconsin Idea, it's a good idea to click [here](#).

More? I mean... Wait! There's more!

Guess what? The WID has the exact same purpose as Terrace Town. To be green!

For other information that isn't extremely relevant, see below.

- The size of this place is 330,000 sq ft.
- The cost to build the WID was \$213,000,000. (U.S., of course.)
- And that's the WID in numbers. The WID in symbols is: \|. |. |).
- And, we've already seen the WID in letters.

Kinmedal Japanese Language School

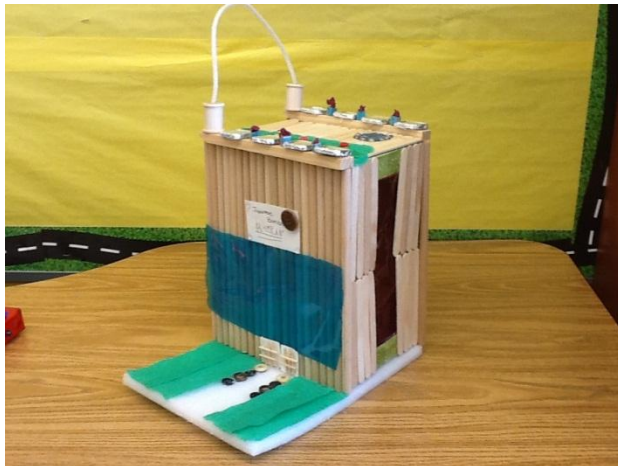
By: Monona, Nana, and Hayato

- Kin means gold in Japanese, and medal is the same. This school has a very big roof top garden. We think that all schools should have an garden so, every kid can enjoy the outdoors while they learn.
- In the rooftop garden we have slides, benches, gardens, and one stage and a microphone for announcements. This garden is great for tag, hide and seek, or other outdoor games. Most of the items are made out of wooden products. The shed has stairs that lead down, and the windmills that are next to the shed really turn!!!
- We hope that people who want to speak Japanese can do so if they go to this school. Also it can help educate Japanese speaking kids in learning English.



Japanese Bamboo Ryokan

By: Nana Monona Hayato



The Bamboo Ryokan is an Japanese style hotel. Ryokan means hotel in Japanese. There are 8 solar panels on the edge of the roof-top. The wall of the hotel is actually made out of wooden pieces!!!

We used 2 empty tissue boxes for the Bamboo Ryokan. The solar panels are made out of square shaped buttons wrapped in aluminum foil. Next to it is an onsen, a Japanese spa. There is a huge pink window, and please note that the bathroom is not placed near...

We hope people who come to the Japanese area will have an nice stay!!!

ENJOY!!!!!!!!!!!!!!!

Really!!!!!! No Kidding!!!!!!

Just ENJOY!!!!!!!!!!!

West Side Office Complex

By Sophie P.



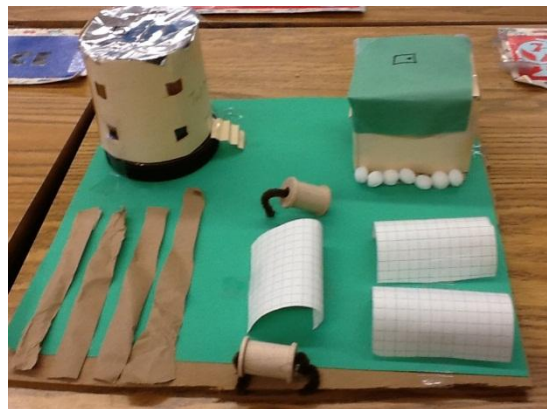
This building is a relatively tall office complex with solar panels on top that is surrounded by stores. It has an elevator that goes down to a shoe store, “Eco’s Shoe Store”. The shoe store uses “In Step Nano Power”, which you can look into. There are sidewalks leading to other stores including a coffee shop and some greenhouses for the workers to go when they are on lunch break! Thanks for learning about West Side Office Complex!

Joe’s Produce

By Seegz and Raia

Joe’s Farm is, well, a farm. But not a regular everyday farm. This Farm is SUPER eco-friendly! Some of its green features include 2 hydroponic gardens and several solar panels on the produce place (I’ll get to that later). In the general layout, there are a few rows of crops, the hydroponic gardens, and 3 greenhouses. There is a huge tool shed (appropriately named Joe’s tool shed), which is the size of an average house, or a really big tool shed. Finally, Joe’s Produce Place. It is a dual-function, mug-shaped, two-story building. On the first floor, there is a small grocery store, which sells green (and a bunch of other) colored foods straight from the farm. And on top of that (literally, it’s the second floor), there is a restaurant featuring many delightfully delicious dishes, all including greens from the garden. The farm also uses natural fertilizer from the neighbor’s cow (clothespins provided).

And now for a closing tongue twister that just happens to be related to our presentation.



Can you procure your manure?

Hamster Earth Children's Museum
By: Kyra, Mattie and Devon



The Hamster Earth Children's Museum has a rooftop garden/park with a chicken coop, trees and a pond. On the inside there is a hamster wheel. When you run on it, it collects energy to power the building. Also there is a huge climbing wall that leads up to a bridge that goes all the way across the museum. At the other end of the bridge there is a fireman's pole to slide down. Underneath the bridge there is a family

swing. When you swing on it, it powers a levitating bench where you can relax and buy fresh vegetables along with chicken from the rooftop garden.



Somewhere Over the Rainbow.....

By Emmely, Taylor, and Fiona

Somewhere Over the Rainbow is a library that has a lot of windows so a lot of light can go in which allows people to read their books or magazines without much cost. The library has a garden used on the rooftop and on the front lawn. Gardens are eco-friendly because they use recycled materials. Recycled materials help keep costs down by reusing. Instead of buying "new materials," such as fertilizer, you could use cow dung from a local farm!



We hope the people of Terrace Town will enjoy the library!!!!!!

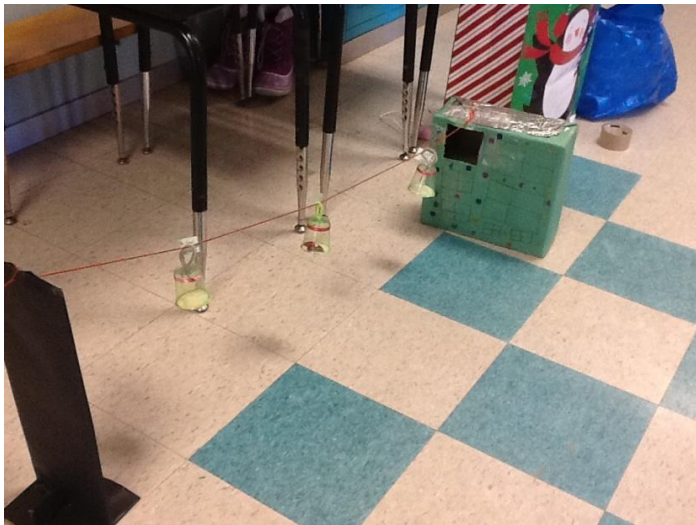
SKY FLY EXPRESS

By: Nisha, Lily and Bani

For our terrace town project we made the Sky Fly Express. It is a Urban Cable System, which is a mode of transportation that uses gondolas to carry people. The Urban Cable does not travel on roads; they travel in air held by a wire. The Sky Fly *Express* is fuel efficient which is good for our environment. It's like carpooling with a stranger but better, you get your own space. Using the subways is the opposite of what our Sky Fly *Express* will be like. On subways it is very unlikely for you to get a good spot, and a non-crowded spot. Each Sky Fly carries eight people.



If it's five minutes before your meeting at work, just hop on to a Sky Fly and you'll arrive in time. This is because there are no traffic lights which keeps traffic minimized. Some more benefits are that you don't need to build more bridges because the Sky Fly's can cross right over rivers which also means infrastructure costs less.



The materials we used for this project are the green plastic cups, pipe cleaners and some sequins to add some creativity. We used green cups to represent green architecture. Michael Mcdaniel suggested the idea of The Wire in Austin, Texas, which was our inspiration. We would love to have an Urban Cable system in Madison! It will be a great way of transportation. We hope you enjoy the Sky Fly *Express* in terrace town!

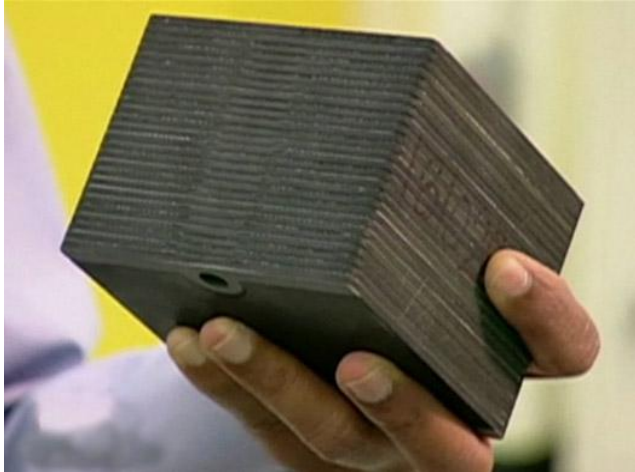
Bloomed Bloomed Bloom Box

(A.K.A. B⁺)

By Awonder and Chris

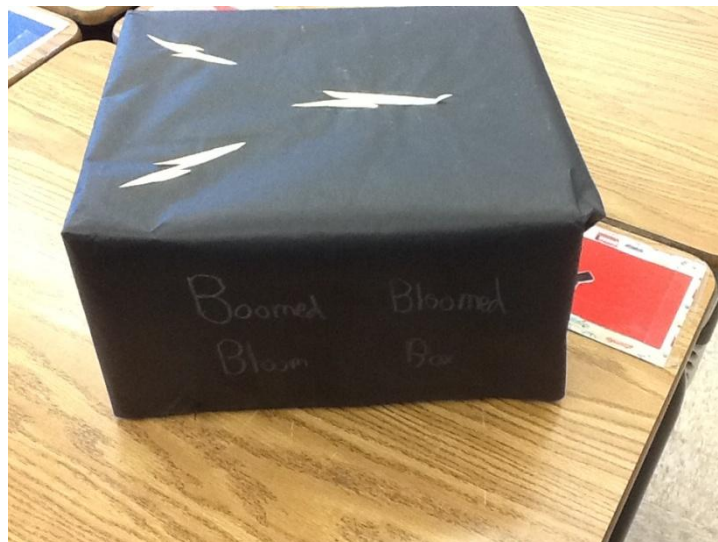
We built a Bloom box making company. I'm sure you're wondering what a bloom box is. Well, a bloom box is a box that creates energy to power up things such as houses for a long time. Well a bloom box isn't very big. Our bloom box has a volume of approximately 300,000 square feet. I'm sure that's way more than 100 times bigger than a bloom box really is. It is meant to power up most of the city.

Bloom boxes actually exist! They were invented by KR Sridhar. He wanted to make them so that large companies could power themselves more cheaply. Some of the companies that use them are Ebay, AT&T, Google, Bank of America, Walmart and many more.



This is a picture of a Bloom Box

The bloom box company in our city also has solar panels on it so it also can charge itself! The city pays \$10,000 to the electric company to charge the bloom box by half of the total energy it can hold. I know that seems like a lot of money, but a real bloombox costs \$3000. Therefore, our bloom box has a much better price and it powers up more things!



Le Poodle Barber Shop

By: Batool and Eja



Ms. Poodle wants all her customers to leave satisfied, so she has all the amenities any barber shop could ever want. She has solar panels to power the styling tools, as well as her dog's fancy massage bed. She bought her solar panels from the money for making coats for inanimate objects. She also has her poodle, Poodle to keep her and the customers company while she does their hair. Ms. Poodle has some hobbies such as knitting and gardening, as she has her very own garden in front of the barber shop. She knits coats for Poodle with the poodle hair of Poodle himself!

[PEOG goes here]