



Memorandum

DATE: April 1, 2021

TO: Chair and Members of the Board

FROM: Kevin H. Roche, CEO

SUBJECT: Agenda for the Outreach & Recycling Committee Meeting

There is an **ecomaine** Outreach & Recycling Committee scheduled for April 8, 2021 @ 4:00PM. The meeting will be held on the Zoom Platform.

The agenda for this meeting is as follows:

1. Approval of Minutes (*Attachment A*)
2. Update – School Grants Program (*Attachment B*)
 - Final Reports – FY20
 - Status Report – FY 21
3. Update – Upcycle 2021 Grants Judging (*Attachment C*)
4. Update – Master Recycler Curriculum
5. Outreach & Education Report (*Attachment D*)
 - Education & Outreach Data
 - ecomaine Website & Media Analytics
6. Recycling Market Report
7. Upcoming Events:
 - Earth Day April 22, 2021
8. Other

Meetings:

Full Board of Directors	04-15-2021 @ 4pm
Finance & Audit Committee	05-20-2021 @ 3pm
Executive Committee	05-20-2021 @ 4pm
Outreach & Recycling Committee	05-27-2021 @ 4pm
Annual Board of Directors Meeting	06-17-2021 @11:30am

ecomaine
Memorandum

DATE: February 11, 2021 Attachment A
TO: Chair and Members of the Board
FROM: Kevin H. Roche, CEO
SUBJECT: Outreach & Recycling Committee Minutes – February 11, 2021

The **ecomaine** Outreach & Recycling Committee met February 11 via Zoom. The meeting was called to order at 3:02 p.m. by Caleb Hemphill, Chairman.

1. Approval of Minutes
 - Jamie Garvin moved to approve January minutes, Rob Wood seconded and all unanimously approved.
2. eco-Excellence Awards – Review & Judging of Nominations
 - The Committee reviewed 2021's eco-Excellence Award nominations and awarded the following:
 - i. Arnold Vickery, Hollis (Individual)
 - ii. Maine Beer Company (as a business) and employee Dave Love (individually within the business)
 - iii. Kelly Meslin, Town of Gorham Public Works (Individual)
 - iv. Rev. Priscilla Dreyman, South Portland/Cape Elizabeth (Individual)
 - v. Casco Bay Cleanup Project (Non-Profit)
 - vi. The Ecology School, Saco (Non-Profit)
 - vii. Scarborough Land Trust (Non-Profit)
 - viii. Town of Yarmouth Transfer Station Staff (Non-Profit)
 - The Committee chose to award the eight recipients equally in 2021, rather than choosing overall category winners.
 - The Committee recommended establishing a Municipal award category in future years.
 - The March 9 event will be held virtually, but will seek to incorporate some pre-recorded video elements with the winners.
3. Review of School Recycling Grant Program
 - Staff provided a review of FY20 Grants (now closed) and an update on FY21's grants (mid-term reports to come by March 12, final reports by May 28).
4. Outreach & Education
 - Staff provided an overview of outreach and P.R. metrics for FY21 to date.
5. Recycling Market Report
 - Staff provided an overview of recent market activity and pricing for recyclable commodities.
6. Other/New Business

- Staff included a mention of the Upcycle 2021 Challenge, which is now accepting submissions for upcycled designs from students for a \$500 grand prize.

David Durrell made the motion to adjourn at 4:28 p.m. Linda Boudreau seconded. All approved.

Attendees: Caleb Hemphill, Jeff Amatrudo, Linda Boudreau, David Durrell, Jamie Garvin, Rob Wood

Staff: Matt Grondin, Lena Ives, Vanessa Berry, Katrina Venhuizen

DRAFT

School Recycling Grants

Outreach &
Recycling
Committee Review
April 8, 2021



Gorham Cooperative Preschool, Gorham

Items Purchased:

In-kind donation of dual-compartment compost tumbler system

Updates on Progress:

"[W]e are using the compost bin and the mini buckets for transporting to the bin... The students clean up their own snack and have learned to place food leftovers in the mini container and we have explained what will happen to that food. We plan to continue to compost and look forward to having some compost ready to use in our garden boxes."

Education with ecomaine?

"When there aren't so many restrictions we would love to have Vanessa or another educator come out to our school again for learning about recycling and paper making."



Waldo County Technical Center, Lincolnville

Items Purchased:

Weekly recycling collections from Pinkerton's (hauler) at a rate of \$105/month.

Updates on Progress:

"Our administration will be including our new recycling costs in the annual budget from here on out.

In the meantime, Outdoor Leadership students have filmed a PSA to inform students/staff about the new system and how to ensure no contamination."



Children's Nursery School, Portland

Items Purchased:

Visual Learning Resources \$85.49; worms for vermicomposting bin \$25; Paper Shredder \$40.43; Seed packets \$63.75; Can Opener \$11.68; Newspaper Pot Maker for DIY Biodegradable Seed pots

Updates on Progress:

"The children have added the new worms with our old worms, shredded paper for bedding, planted most seeds and bulbs in pots outside for a germination period, played with all the recycling games and materials, and continue to learn about what items go into the trash, what items go into recycling, what items go into the compost bin, and what food scraps our worms like to eat. In April, we will start making biodegradable paper pots and clean our tin cans so we can plant the rest of our seeds. Thursdays are always our day to care for our indoor plants and worms. The children feed the worms in a new corner of our vermicomposter, document who the caregiver/s was/were, and what was fed to the worms. From time to time, we extract the beautiful compost dirt that the worms have produced and add it to the soil in our indoor plants. Children water as well as spritz the foliage of our plants each week. The plants are so happy and healthy!"



CNS is planting a **RAINBOW** of early-blooming, native Maine seeds and bulbs for local bees after a long winter when their honey stores are low.



Thank you **ecomaine**

St. Brigid School, Portland

Items Purchased:

Greenhouse - \$492



St. Brigid School
Excellence Faith Community

Updates on Progress:

“The winter weather has prevented us from installing the greenhouse, but once the snow melts, we plan to set it up and purchase starter trays, small pots, soil, flower seeds and herbs. Our teachers are excited to incorporate the greenhouse into their classroom learning in the Spring! They would like to learn about the life cycles of plants, use the scientific method to test different plants in different soils, analyze soil components and teach the younger grades about the importance of soil and recycling. Other teachers would like to grow herbs for life skills classes and plant lettuce and tomatoes to be used for salads in our cafeteria.”

Westbrook High School, Westbrook

Items Purchased:

\$3,500 for the purchase of 2 water bottle filling stations (custodial staff did the installation)

Updates on Progress:

"The Environmental Class and the Sustainability Club are tracking the bottles saved – over 400 bottles [have been] saved with the 2 new [refilling stations]. That number will go up more dramatically when we go back to full school capacity.

We will continue to educate kids on the long-term effects of plastics in our environment and the simple ways we can all do our part to reduce, recycle, and reuse."



Appletree School, Cape Elizabeth

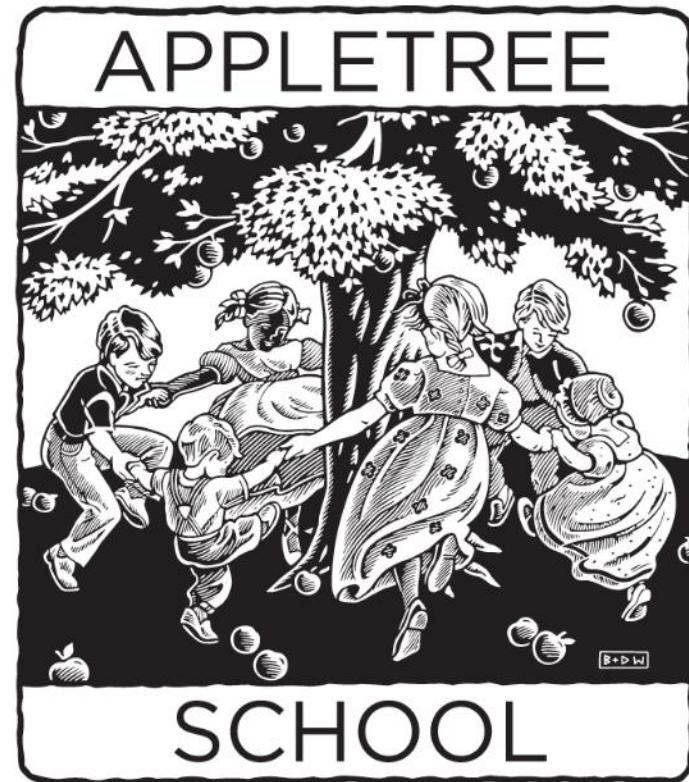
Items Purchased:

\$223.95 has been spent on multi packs of Seventh Generation paper towels.

Updates on Progress:

"The children will use the paper towels for drying hands after washing hands which is a change from the reusable cloths that we typically would use in a non-covid year. We anticipate cutting the paper towel rolls in half to reduce excess waste and explaining to the children that they can be put in the compost bin instead of the trash.

Hopefully, we will be back to normal in the future and will resume our reusable cloths for everyone at school. So, we will find a new project for next year! "



Gray-New Gloucester High School, Gray

Items Purchased:

Shed \$1,600; hardware and tools \$248.95; compost tea brewer \$995; and microscope \$347.99.

Updates on Progress:

“The units of curriculum for the Environmental Science classes will begin on 3/25 and run through to May 20 for Seniors and June 15 for Juniors. The curriculum has been outlined and lesson plans are being developed. We are scheduling lessons from educators at ecomaine.

We have a greenhouse program that will incorporate the products from the composting program. The composing bins, shed, brewer and curriculum will be used in future years. This will produce research opportunities for our students and knowledge for our community for years to come.”



Kents Hill School, Readfield

Items Purchased:

\$3234.99 spent on recycling bins and lids

Updates on Progress:

“Students from the Green Team and Digital Media are collaborating to design a new label for single sort and bottle redemption. Their design will be installed around campus. Students from Sustainability and Entrepreneurship collaborated to do a waste audit of one week of trash generated on campus. That data will help us work towards 100% diversion of recyclables.

I will be collecting the recycling from campus and continuing to bring to the Readfield Transfer Station. I have been building a relationship with Transfer Station employees to ensure that we are recycling appropriate materials. I am working with our Dining Services manager to collect recycling in the dining hall. We are also working with students to divert and measure food waste to begin diverting organic materials from the landfill.”



King Middle School, Portland

Items Purchased:

\$473 spent on tongs & "grabbers" for waste/litter cleanup.

Updates on Progress:

Our *Four Freedoms* expedition has a community service component, which was halted this year because of the pandemic. Cleaning up the campus allowed our students to engage in service in a safe but meaningful way. The waste sorting relay races will take place later this Spring as a way for our 6th graders to understand how to sort items into various waste streams, as well as the importance of doing so.

At King, we are serious about our commitment to engaging our students in building a healthy and sustainable world. These efforts are activities that will be ongoing, in one way or another, for many years to come. *Four Freedoms* has been King's longest running expedition, and we anticipate that it will continue, with a service component, moving forward. Our "compost guardians", who monitor trash sorting in our cafeteria, is an active and engaged group.



Boys & Girls Clubs of Southern Maine, Portland

Items Purchased:

**REPORT NOT YET
SUBMITTED (extension
offered until 3/31/21
due to staffing challenges)**

Updates on Progress:

[*\$5,000 for composting program @ Portland Clubhouse; pickup by We Compost It! + compost enclosure & signage.*]

The Portland Clubhouse has confirmed a vendor for food waste collection and plans to begin collecting food scraps with We Compost It! this spring in their kitchen and from their meal distribution program.

Once the bins are on-site, the Portland Clubhouse plans to kick-off the program with a training and program for each group/pod of students.



**BOYS & GIRLS CLUBS
OF SOUTHERN MAINE**

Upcycle 2021 Challenge

Outreach &
Recycling
Committee Review

April 8, 2021



Aurora Milton – Cape Elizabeth HS

This bomber jacket is perfect for brisk fall days, dewy spring mornings, and everything in between. The lining is made from soft, breathable cotton and the outer layer is made from sleek, black charmeuse. The cotton textile was crafted out of old t-shirts and quilted together to make a usable material. The outer layer was taken from an old, unattractive bridesmaid dress that would have been thrown out. The crisp lines from the dress add unique lines to the jacket. Everything used (excluding the thread) had a previous purpose that wasn't needed anymore and was transformed into a vintage but modern, very chic look!



Fiddlehead Center for the Arts - Scarborough

The Fiddlehead Leadership students wanted to make something useful and artistic with all the single use plastic bottles that we collected from our friends at the Portland Hunt and Alpine Club. With Covid 19 the bar/restaurant has resorted to using single use bottles for all their drinks which our students saw as wasteful. What can we make? They met as a team and decided it would be cool to create a sculpture that had a function and so was born the concept of a chandelier. With help from the following supplies and ingenuity they saw the concept through and now our center has a beautiful chandelier to light our stairway and inspire young artist/makers for years to come.

Supplies used:

Single use bottles*

Bottle caps*

Bottle cap rings (these made up the "chain")

Felt*

Peony cage*

Foam tubing*

Wire*

Metal grates for stove pipes*

Electrical tape

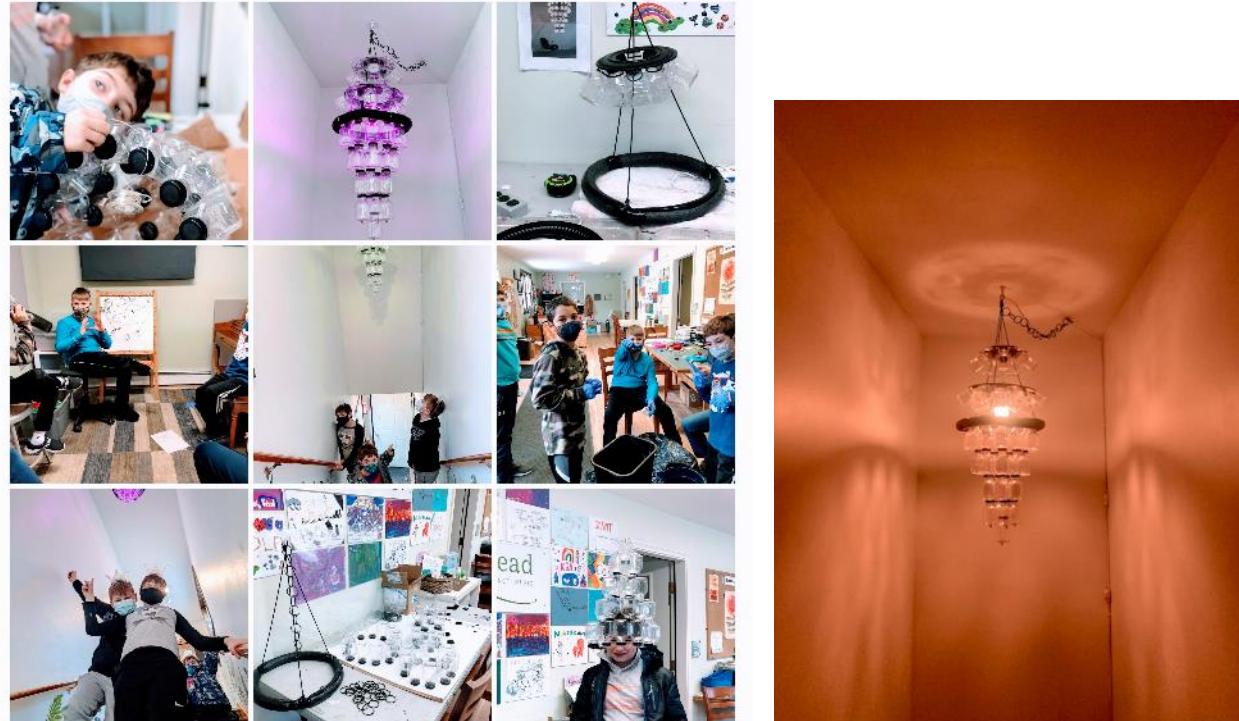
Black Spray Paint

Color changing light bulb

*Upcycled items (destined for the trash)

Fiddlehead Leadership Team: Bo Brown, 5th grade and Sebastian Babcock, 5th grade

Younger helpers: Issac Babcock, 2nd grade and Brandon Brady, 3rd grade



***Video of light-changing bulb will be shared during virtual Committee meeting.*

Laurel Wight – Freeport MS

My upcycling design is a two-piece outfit, shirt and skirt, entirely made of plastic bags apart from the ribbon for the straps and the old stained pillowcase used for the liner. The shirt has a corset look in the back which has crossed ribbons as a tightening mechanism, the patterns of the plastic bags are not symmetrical, each strip of plastic has its own place. The base of the shirt is a used rice bag which did make it more box-like. The straps on the shirt are attached in the front and are meant to be tied around your neck. I designed the shirt to fit most sizes and so far, because of the cross-ribbon pattern in the back, they have been able too. The skirt is designed almost exactly like the shirt, with a cross-ribbon pattern down the side and the plastic in almost the same patterns. The only differences between the two are the liner that goes all the way around the skirt instead of partially and that the skirt has a bit more length to it than the shirt does.



Morse HS Green Club (*RSU #1 includes Woolwich*)

The Bike Rack from Bikes - Morse Green Club

As Morse High School Green Club members, we have produced a bike rack using post-consumer, upcycled bicycle frames donated by our community. Morse High School opened its new building this February, so we felt contributing a bike rack, which the school lacked, would reap great benefits for our teachers and peers. This upcycling invention will encourage students and faculty to ride their bikes to and from school, resulting in healthier bodies and a cleaner environment.

First, we brainstormed in late February, intending to decide on a meaningful, green invention for our school. We ended with the idea to build a bike rack using upcycled bikes, as our school has a large biking community. We put out a call to the Woolwich and Bath community looking for bike donations. We were able to collect four outgrown and otherwise wasted bikes. On the first Saturday of March, we met to strip the bikes down to the frame. The process was dirty and unremitting, but after many hours and a trip to Bath Cycle and Ski (located in Woolwich), we reaped the fruits of our labor; we had four clean frames. To be extra environmentally conscious, we donated all post-strip unused bike parts to the Portland Gear Hub's many bike building programs.

Next came the assembly process. A few preliminary sketches revealed a need for a metal pipe and a long supporting piece. We sourced these materials through a member with a former home water system pipe, and another member retired their skis after much use on the mountain. The rebirthed bike frames were mounted to the pipe, the ski was drilled to the frames, and a unique bike rack was born. Minus the screws, we upcycled every piece used to invent our bike rack.

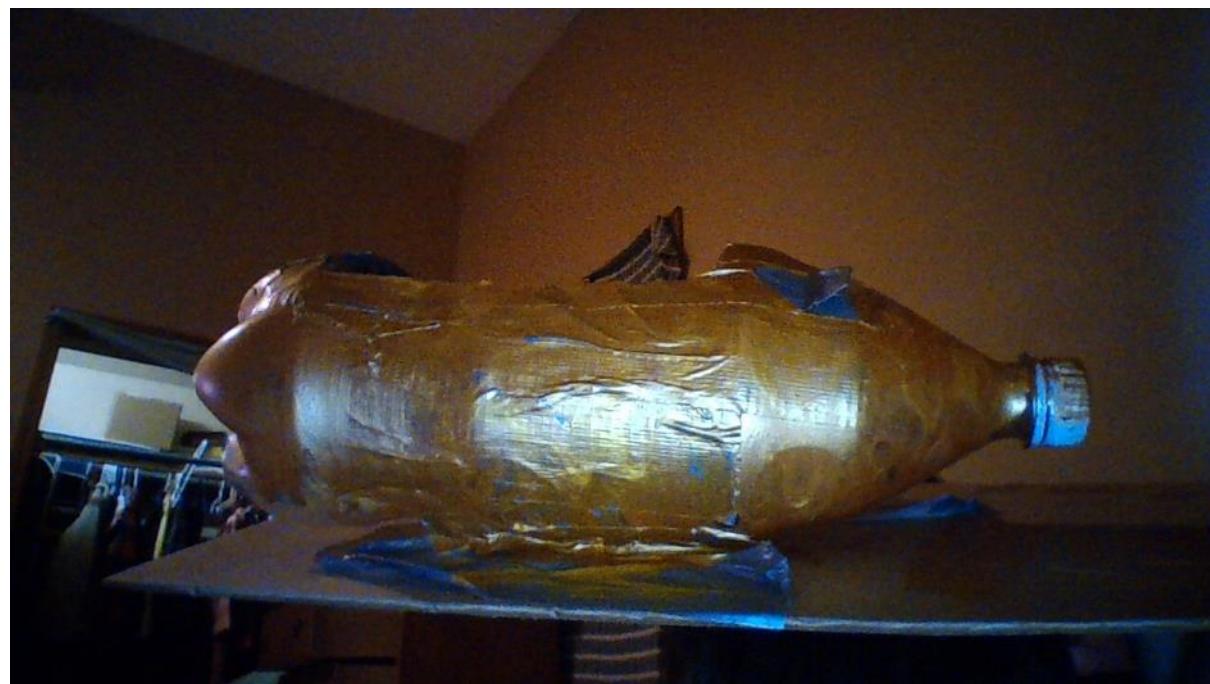
During this project, the Green Club gained three new members who helped to produce this rack. Our club is now twelve members strong -an impressive feat as COVID-19 has meant the demise of other school-sponsored clubs at Morse. Upon unveiling the bike rack, we hope to bring more attention to both our club and the necessity of community-based climate advocacy projects. Of course, we are also excited to promote biking as school transportation and plan to organize bike-to-school events in the future.

Morse High School is located in Bath and serves students from many local communities, including Woolwich, an ecomaine member community. Several Green Club members that contributed to this project are Woolwich residents, while the rest of us hope to be part of an ecomaine member community soon!



Calum Flaherty – Loranger MS, OOB

This is a crow feeder made from a soda bottle it has been colored gold so the crows will be attracted to it. The reason I made it is because my mum loves crows and feeds them everyday. This will help crows have food in my area. The bottle was made big enough it can store several pieces bread. It will attract more crows and that will get rid of some seagulls in the area which will make the crab, chickadee and Etc.. making the ecosystem more vast. In conclusion this will help the environment in many ways like balancing the environment.

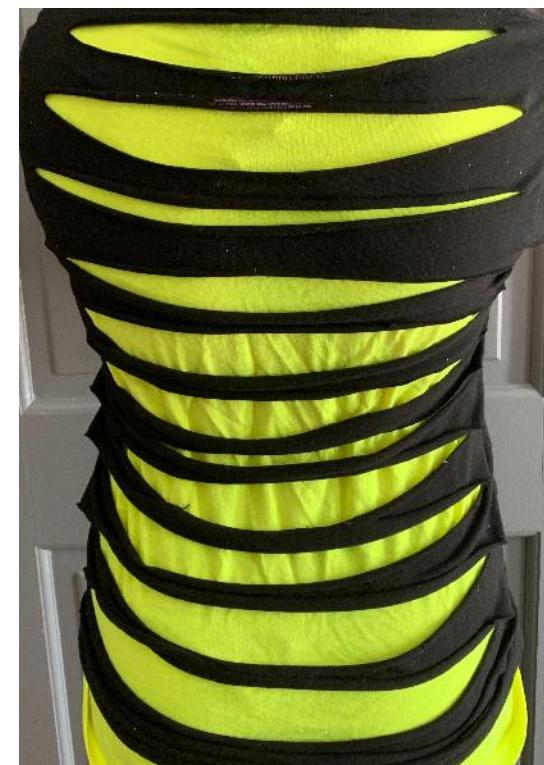


Kayla Townsend – Loranger MS, OOB (2 entries)

In my Science class, we were asked to up-cycle a product and present it in our Zoom class. We were also given the opportunity to enter in your Up-cycle Challenge and I was so proud of my up-cycle products that I decided to enter. Once I got into my up-cycling groove, I decided to design two up-cycled products.

My first product was a storage container for my bedside table. Bedside tables get cluttered so easily, so I designed a cute little storage container out of an empty facial tissue box. All I used was scissors and the cardboard facial tissue box. I have attached my storage container photo below!

My next product plan was to up-cycle plain, old, regular t-shirts into what I consider modern day design wear. All I needed was the t-shirts and fabric scissors to accomplish my up-cycle design. By up-cycling my old t-shirts, I am able to utilize these items for longer than I normally would. Instead of tossing out my old, "not so cool anymore" shirts, I am able to save them, use them, and even love wearing them all over again! I also attached photos of my shirts below! I hope you enjoy both of my up-cycle projects! I learned really quickly that up-cycling is a lot of fun and I plan on continuing to do my part in up-cycling even more of my items for a long time to come!



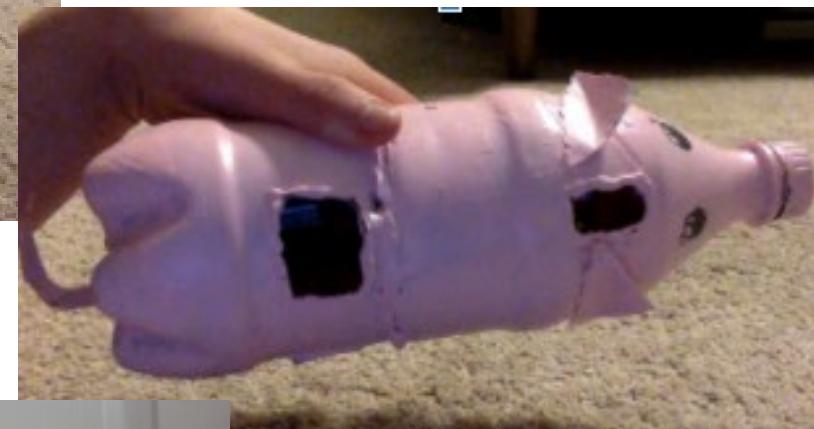
Alexzandra Jewett – Saco MS

My 1989 ford mustang end table is an end table to put beside a couch. My invention is made for decoration, but it is also convenient to hold drinks or set other items such as books, a phone or any other items of your choice. My invention is made of car parts from a 1989 ford mustang 5.0 V8. These car parts do not work anymore so I reused them to make this creative end table. The materials I used were A crank pulley, a camshaft, a flex plate and spark plugs. The purpose of this invention is to reuse these car parts instead of getting rid of them. My main goal when I created this table was for it to be interesting to look at even for someone who does not have an interest in cars or ford mustangs to be more specific. I believe I definitely succeeded in this project.



Anne Lefebvre – Saco MS

My Upcycled Invention is a Piggy Bank. Now this Piggy Bank is made from recycled materials like a Plastic Bottle/Liter bottle and cardboard. This Invention is used for holding money, both coins and dollars. In the front of the Piggy Bank there is a little hole at the top of its head where you insert the coin. Say you want to take some coins out of the piggy bank, You can unscrew the piggy bank's nose to grab some coins. Now if you want to insert your dollars in the piggy bank there is another slot that is bigger and closer to the backside of the bank. And if you want to take out your dollar bills there is a flap right below it that you can open to get your dollar bills.



Brycen Lachance – Saco MS

The way invention work is it will hand off the bird feeder holder and be there for the birds to eat from. The sticks sticking out are for the birds to sit on, so it is easier to eat.



Cora Bolduc – Saco MS

Cora's Candy Bowl!

To make this I used paper, glue, water, paint, and fabric. I first started off by making the bowl itself, for that I had to get pieces of paper and dip them in a glue + water mixture. Once the paper is wet you put the paper over a bowl that is covered in plastic wrap. After 24 hours have passed you can take out the bowl and there you have a paper mache bowl. After the bowl was made I put a piece of fabric at the bottom of the bowl and I painted it!

This invention that I made is used as a candy bowl, which means I put candy in it! This invention is not only a candy bowl it could also be used for decoration, jewelry, and more. I really enjoyed making this upcycled project, and I really like how it came out! This took me a while and a lot of effort so I hope you enjoy it! #Upcycle



Eli Harbour – Saco MS

My Upcycle Project is Firestarters made from items that would be thrown away. I used a cardboard egg carton and dryer lint. For the wood shavings, I used a piece of wood from my yard that was from a tree that my parents had cut down. We used old candles.

I started by shaving a piece of wood using a small axe. I then lined each egg carton space with the wood shavings. I added dryer lint to each hole also.

To melt the wax, I took an empty soup can and filled it with the pieces of wax from old candles. I put the can of wax in a pot over the stove. I added a little bit of water, then I turned the stove on to medium heat until the wax melted.

Once the wax was melted, I poured the wax into each spot of the egg carton and placed it outside to cool. Once the wax hardened in the wood shavings and lint, I separated each one.

We throw a few into our backyard fires to help ignite it. By Eli.H



Emery Greene – Saco MS

The invention I chose to make was a car tire bb gun target. The target was made out of a car tire, two 4 ½ FT planks, 8 roofing nails, 4 tin cans, 3 FT long rope, and a 2 FT long piece of string. The tire I found in my scrap pile, the nails I found in a old, thrown-out nailgun, the tin cans I took from the recycling bin, the rope I found tied to a bucket in a trash can, and the string I found in a bucket of yarn.

The reason I made a bb gun target was because both my brother and I both have to find a target every time we want to shoot out bb guns. So I wanted to make a target that we did not have to look around for. We could just go into the garage and take it off the wall. I tried to make it light because I did not want it to be super heavy when we went to move it.

The target is very simple. All you have to do is hang it up on a tree by a nail or screw, and shoot the tin cans hanging off the planks. You will know when you hit the can then you see it swinging and you hear it ding because it is aluminum. When you are done with it, all you have to do is hang it up in a garage or in a shed.



Isabelle Knox – Saco MS

THE CARDBOARD COUCH TABLE

About my Idea

The title of my idea says it all! Picture this: you grab a glass of water and you want to sit on the couch. You have no coffee table and no tables near you so you set your glass on the couch and of course it spills. You do not have to worry about that again with the cardboard couch table! It can obviously be made into drawing tables and with cup holders on it like mine. We can make it so many different ways!

Purpose/how it works:

The purpose of this invention is to be able to watch some chill TV while drinking a glass of water or watching TV while doing crafts. You could also use this table so many different ways. You sit down and grab your table and put your glass on the table now enjoy the relaxation.

Materials:

The materials used are cardboard, plastic water bottles for a cup holder or anything else you can find to make a cup holder, glue or duct tape, anything else you want to add!

The End:

In the end my invention is made out of recycled materials and the other invention is the same as mine but with wood and things are not recyclable, so if we start building these for people maybe we can slow down the carbon in the air!



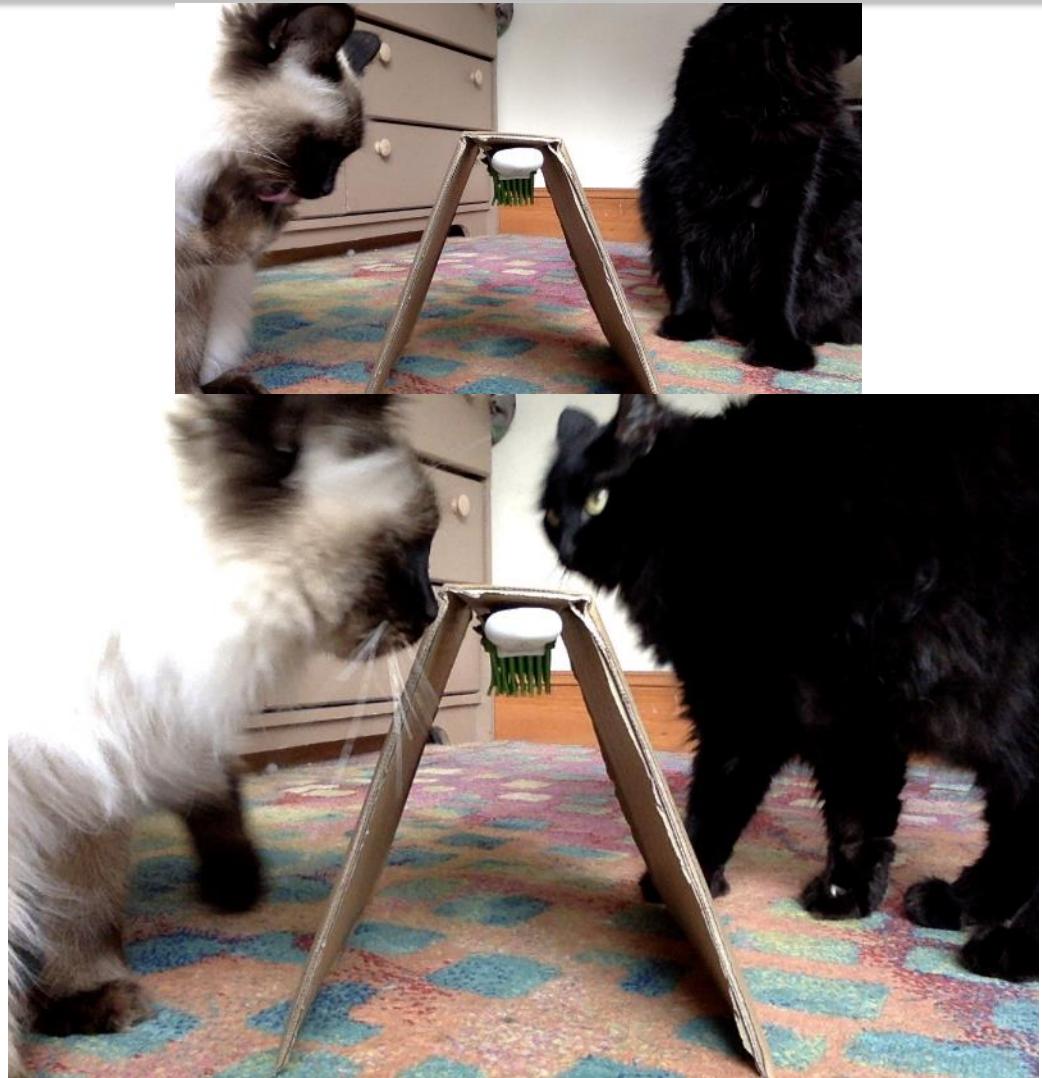
Jack Squires – Saco MS

Name: This machine is called the Stay at Home Scratch and Roam.

Materials Used: For this invention I used cardboard, tape, and a cat scratcher.

The Purpose: The purpose of this is when you go away you cat normally doesn't get pet by you or anyone else for that matter. So I made the Stay at Home Scratch and Roam. This device allows you to go where you please and your cats are allowed to pet themselves. I made this invention at home with the help of my associates.

How it works: The cat simply has to slide under the cat scratcher, mine have already done so 5 times. And the height can be changed by the amount of cardboard you make it with and you can add more cat scratchers, as many as you like. Because my cats are relatively small I made the machine small and only used one cat scratcher. I could have put more but I decided against it because my cats like it already.

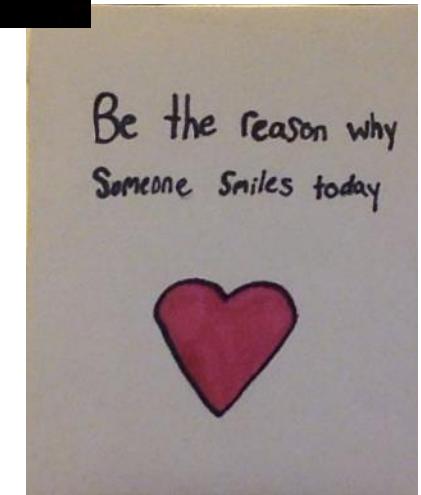


Kristina Rakovic – Saco MS (2 entries)

Introduction: For the upcycling project I made two upcycled items, one of which is a storage container and the other one a coaster. The name of my storage container design is the stylish container and the name of my coaster is the positive coaster.

Stylish Container: The stylish container is better than the other storage containers because it can hold a lot of stuff, and it is also stylish. Unlike other containers where you have to put it in the closet the stylish container is small enough to have it on your desk but still has a lot of space to put stuff in it. It can fit lots of stuff, anything from pencils and supplies to hair or make up stuff. Also if you were to have it on your desk it looks like a decoration piece since it has a little bow in the front and it is not like the average plain boring container that you would put in your closet or attic with all the other plain boring containers. Last but not least it is recycled! Which is a good thing and it helps the planet. Not to mention most storage containers are not recycled which is not helping the planet!

Positive Coaster: The positive coaster is a coaster that has a positive message on it. The reason why the positive coaster is better than other coasters is because it has a positive message on it. Other coasters are usually plain or have a design. However the positive coaster has a positive message on it, for example "be the reason why someone smiles today." The reason why it makes it better than other coasters is because it makes a positive impact on yourself and for other people. So if you are ever feeling down while wanting something to drink you can use the positive coaster. It is also better because it is recycled and it helps the planet.



Lily Johnson – Saco MS

My project is called a cork board. My project (or art piece) is for decoration/wall decor. It can be hung out on walls and set on tables for decoration. The corks are very soft and can be pinned into. Pictures, papers, or sticky notes can be pinned into it. It's great for an office space or authentic bedroom piece. It can be several different shapes such as circles, squares, rectangles, and more. But for my piece I chose a rectangle. You can also add special things like lights or paint to add your own pizzazz to it. It's a very fun and easy thing to do when you have extra unused wine corks at your house. All you need is Wine corks, Hot glue and a hot glue gun, pieces of unused flat wood, pins, and any extras you might want to add. You can add different designs like up and downwards or just straight up as well. Since the corks act like a bulletin board, you pin things on it. It's a great present to give to a friend or family member, and you can add your own special photos of you and that person. Overall, its purpose is a great rustic, but easy, decoration for your home.

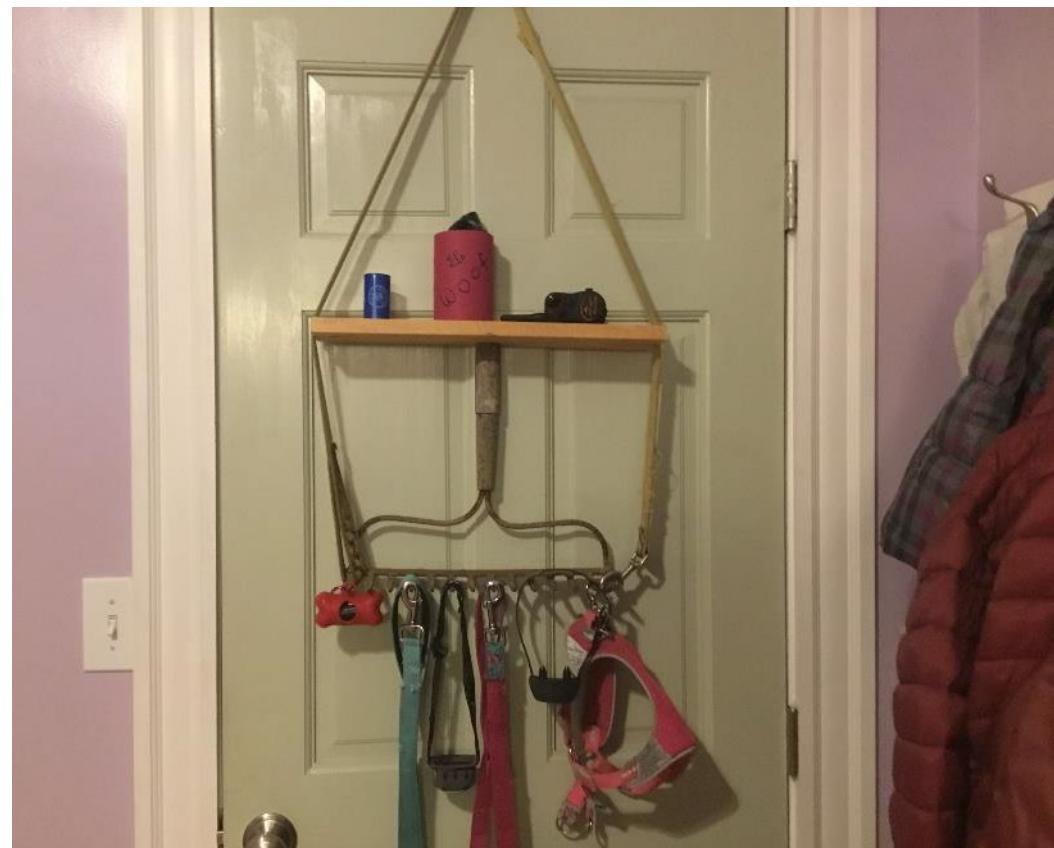


Lindsay Turcotte – Saco MS

Purpose: To hang up on a wall and store all your animal or other supplies and usages.

How It Works:

You use the shelf to place things on. You use the rakes' tines to hang all your supplies on. I hung on the hooks my dog's supplies. They were her Leashes, Harnesses, Collars, Waste Bags and Coats for the winter (If Needed). You could also use the shelf on the top to display things like decorations for a certain holiday such as: Valentines Day, Christmas, St Patrick's Day, Easter, Fourth Of July etc. It could also be used to hang Clothing Items like: Coats, Neckties, Belts, Scarves and necklaces.



Mikayla Goulet – Saco MS

Upcycled Cranberry Can

I made a vase out of an old cranberry can. I used a cranberry can, soil from an old plant, decorative paper, and flower seeds. The purpose of the invention is to slowly chip away at making the atmosphere better.

Cans normally get thrown away and end up floating in the sea for helpless sea creatures to eat them. I used an old cranberry can to upcycle it into a planter.

I decorated a cranberry can so it would look nice. I planted a flower in the vase. In science class, we are learning about carbon dioxide. Plants can soak up carbon dioxide, which makes our atmosphere clearer. I know that only one plant won't help much, but it will help.

I didn't buy the soil to garden the flowers. I upcycled an old dead plant and took the soil and made it a new one! I buried the old plant in a dead spot in the grass. I'm hoping that this will help the grass grow.

Basically how you make the cranberry can is you wash out an old can. Then you find some soil, bury the seeds, and let the sun do its thing.

In conclusion, I upcycled an old can and made it into a new flower vase. It's helping the earth and looking good. Thank You for your time!

The plant is bigger now.



Mya Colby – Saco MS

A recyclable piggy bank

Paper towel roll, paper, marker, tape

When you're done using it and if you don't want it you can recycle it instead of throwing it away and you can help save the environment

It holds money and it does break like you normal piggy bank does and you can carry it around in a backpack and it will be easier than a normal glass or heavy plastic



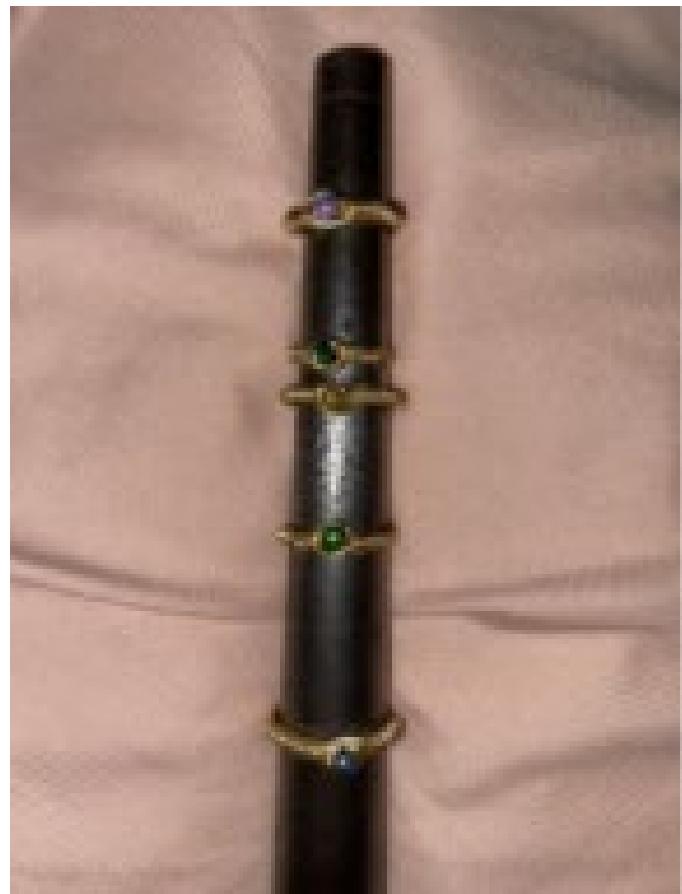
Olivia Dube – Saco MS

Name of design/invention.
moon rings

What materials were used.
wire, beads, ring sizer, sizing
pole

Purpose of the invention. hand
fashion

Describe how invention works.
slide it on your finger and wear
it



Samantha Woodcock – Saco MS

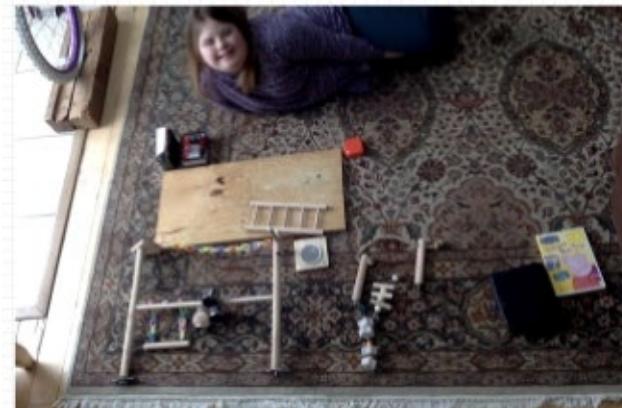
Jessie's Home Jungle Gym.

This invention if for our pet bird Jessie to get his exercise, this is a smaller pedestal so we can move it around the house, especially for Noah to have Jessie in his room during the day.

We took old toys from the top of Jessie's cage which he wasn't using and upcycled them into a new jungle gym which he will be easier to move around the house. This will keep Jessie busy during the day so he doesn't get into trouble.

I used a swing, a special bowl for food and drink, mirror so he can see himself, a ladder to climb up on his new perch, a climbing rope, and some chewing toys.

Jessie loves his new gym and is much happier to be moved around with us.



Jessie and His New Toy



Sarah Nightingale – Saco MS

The plastic plant pot is 2 4gallon plastic water jugs, other materials used were felt and yarn for decoration. I drilled small holes in the bottom of one and cut the top off the other one at the first groove. The small grooves latch together and it wont move around. It works by putting the plant in the first jug and the holes are used so any excess water will drip down into the bottom.

The purpose is so you don't accidentally over water your plant and you can also water it everyday. If you put the top that you cut off it creates a greenhouse effect keeping the plant moisturized and warm even in the cold weather.



Sophia Quattrucci – Saco MS

The Beach Bag

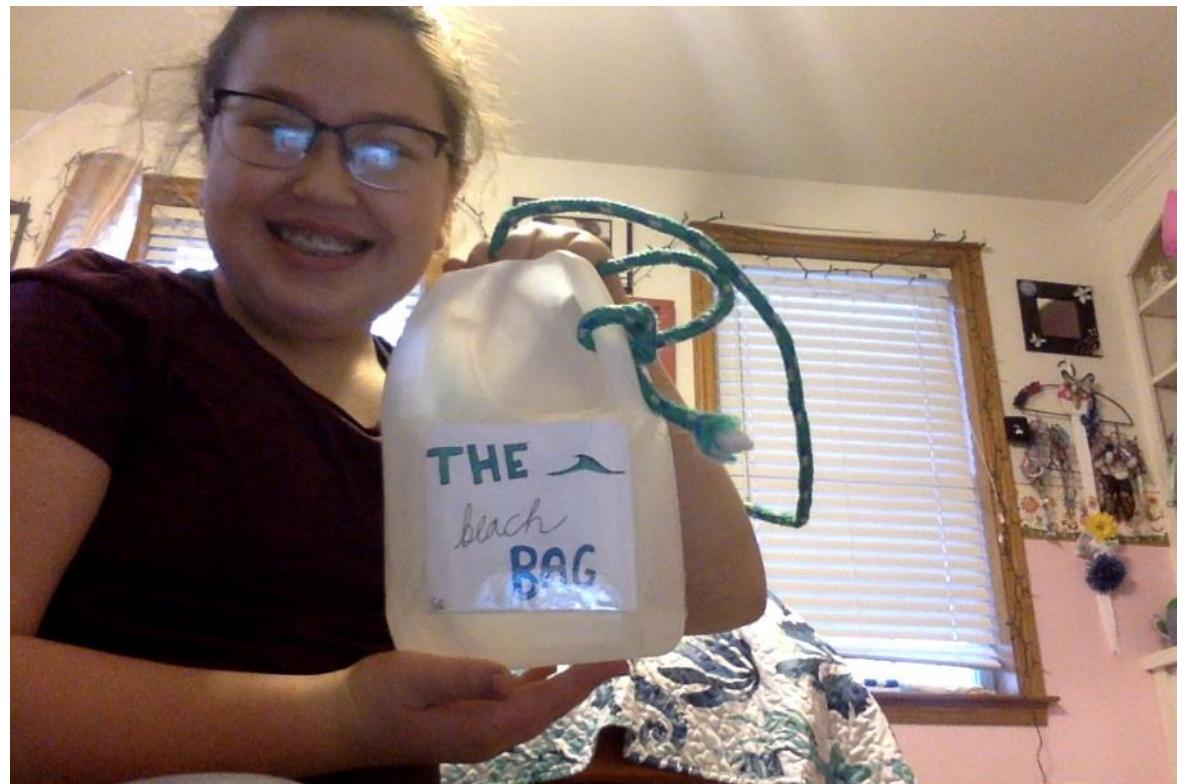
My Invention is called the Beach Bag. It is a bag that I made for when I go to the beach with my family. We can bring it to collect sea glass, rocks, shells, etc.. It can fit a lot of things so we don't have to fill other bags and pockets with things we find on the beach.

The materials I used to make this bag where, A empty water/milk jug, A rope that we found on the beach, something to cut with (I used my mini pocket knife) And lastly I made a label to go on it out of some drawing paper and then put packing tape over top.

My purpose of the invention was to take it to the beach to collect sea glass. My mom and I go to the beach a lot to collect sea glass for her business called sea air scents. For her business she makes ornaments out of shells and she uses pieces of sea glass to decorate them. She also makes all natural air fresheners. The business is run by my Mom and Yiayia.

When we go to the beach we alway bring tons of bags but then sometimes we lose them or forget them at the house. So this Bag that I made is so we always have something to bring to the beach that is big so we can fit a lot. Some problems with other bags is that they fill up quickly then we have to fill our pockets.

How this Beach bag works is you bring it to the beach to collect sea glass, driftwood, shells, rocks, etc.. You can wear it on your shoulder or across. When I tied the rope on I made a slip knot so you can adjust the length of the rope to your liking. If you slide the knot all the way it turns into a double handle and you can just hold it in your hand. This bag is very sturdy so it won't break.

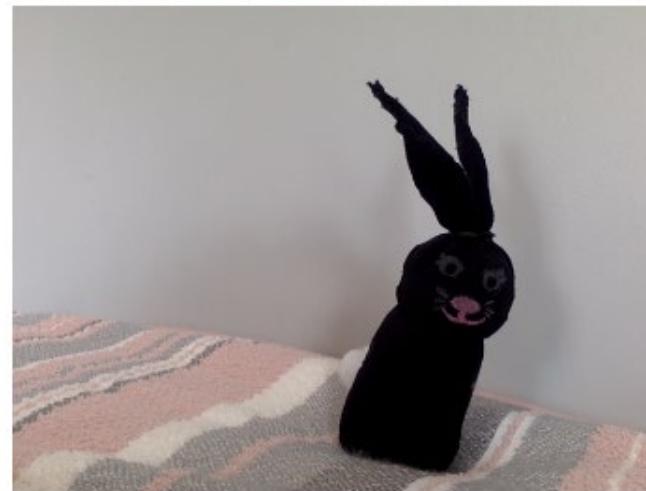
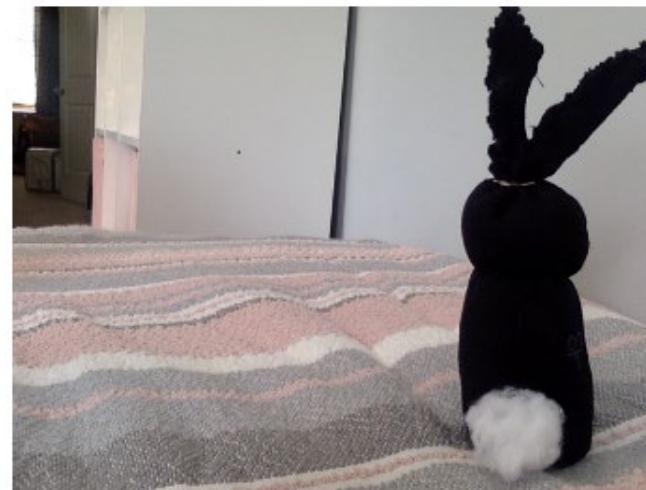


Stella Foy – Saco MS

Ronald the bunny is made out of an old sock, rice ,stuffing, rubber bands and a salsa lid. He can be used as a stuffed animal, a paperweight, just a nice thing to have on display.

Ronald the bunny is more of an art upcycling project than an invention upcycling project. I made Ronald by using sock and putting a salsa lid at the bottom then filling with rice so he is able to stand up. Then add stuffing for the rest of the body. I then put a rubber band for the start of the head adding it with stuffing.

After making the body I added ears and tails, and facial features.



Wells Junior HS Green Team

(Wells is not an ecomaine member)

~The Bird Resort~

We created the 'Bird Resort' to try and attract local birds to our school. Not only does it provide food and water to birds, but it also brings birds to our campus helping to make it filled with life. The 'Bird Resort' acts as a one-stop resort for birds, with birdseed to eat inside the tire, and a birdbath made out of a hubcap. To help birds by having a quick place to just stop and get some water or food if needed.

One of our biggest concerns was weather issues. We accomplished this problem by using a garden hose cut in a way so that it was a small circular shape, then cut a hole in the tire, and then used another section of the hose as a drainage line. One of the biggest challenges that we faced was the metal wire mesh that is built into the rubber of tires to hold the shape of the tire and make them more resistant to damage. We overcame this by adding polyvinyl chloride pipes into the holes to make it easier to deal with the mesh. This hole ended up working as a window. Another challenge was time. We were meeting once a week for one and a half hours per meeting, and we planned to start working on the Upcycle Challenge only four meets before the closure of the competition. This forced us to sacrifice some of our designs, including birdhouses, that would have been made out of hollowed-out buoys.

We wanted to stand out by not only upcycling our materials but also using garbage that if not for us, would still be left on the side of the road. Then we wanted to support the local biodiversity of songbirds in our area, by feeding and washing them. We found a used tire on the side of the road, which we used as the base of the Bird Resort. Also using a used hose, as the draining pipe for when it rains.

The bird resort helps our local bird species here get food, and water, and washing if they need it. It can bring these birds to our campus not only filling the space with life but helping out our environment by spreading the seeds of plants. And also by giving them more resources, will increase the carrying capacity of our ecosystem, therefore, making the ecosystem more healthy, the more that our ecosystem can provide for the more diverse the ecosystem will become.



The tire we used had been left in the woods so long that trees had begun to grow through it.

Drainage hose was made from discarded garden hose. (This drained the water from on top and limited the possibility of the food getting wet).



Bird bath made from old hubcap.

Rope from old lobster traps was used for hanging the resort.

Water retention ring was made from discarded garden hose

Entrance was made from old pvc pipe.

Attachment D – Outreach & Education Report Outreach & Recycling Committee

P.R. & Community Outreach...

- Through March, we've reached **19,848 people**. This is significantly lower in FY21, due to the loss of the audiences at the Red Claws & Mariners games, and no Common Ground Fair or ecomaine Open House (estimated loss of 35,000 touchpoints, year-to-year).
 - FY20 at this point was 50,000. FY19 was 28,630.
 - Educators are making a push for programming to schools for April (Earth Day-themed)
 - The Tagging program will see thousands more touchpoints in the spring, as well.
- Staff has coordinated a video shoot for the **eco-Excellence Awards**, which will take the place of the March event, and be unveiled at the 4/15 Board meeting.
- **The Upcycle 2021 Challenge** is now closed, with finalists to be voted on via Facebook, with the winner to be revealed on Earth Day.
- The **Master Recycler** curriculum launches its first cohort on April 1 for a group of a dozen participants to start (and will then introduce 10-15 more each month for the remainder of 2021).

Media Mentions (15 in March; 127 in FY21 total)

[Ecomaine will roll out second phase of its recycling education program next month](#)
(Press Herald)

[Ecomaine to start grading Mainers' recycling bins](#) (WGME)

[Ecomaine to start grading Mainers' recycling bins](#) (WPFO)

[Which Bin Does it Go in? ecomaine's Partnership with Southern Maine Towns to Answer Recycling Questions](#) (Waste Advantage Magazine)

[Ecomaine program targets residential contamination](#) (Recycling Today)

[Landfills in Maine: The Role and Challenges of Landfills in Effective Waste Management](#) (Maine Public Radio's *Maine Calling*)

[After landfill closes, Brunswick eyes \\$1.29 million annual waste disposal plan](#) (Times Record)

[Guest column: Brunswick should jump on ecomaine contract](#) (Times Record)

[It's nearly impossible to get rid of a camp stove fuel canister in Maine](#) (Bangor Daily News)

[It's nearly impossible to get rid of a camp stove fuel canister in Maine](#) (Also shared at WGME.com)

[The Recycle Bin: With old books, the question is not about keeping them](#) (Times Record)

[North Yarmouth, Maine Trash Talk Newsletter](#) (distributed to all NY residents via mail)

[Obituary: John Thomas Pardi](#) (Press Herald)

[Community Calendar: March 10-20](#) (The Forecaster)

[Community Calendar: March 31-April 10](#) (The Forecaster)

Online & Social Media Metrics...

Recyclopedia:

- In March, the Recyclopedia saw **6,238** items searched. This is down from 9,337 in March 2020. The total number of items searched is 394,192.
- The widget on web pages was viewed **254,720** times in March on ecomaine's site and others who have embedded it.
- Total app downloads to date stand at 4,651 (an increase of 47 in March.)
- The top 10 searches are: Styrofoam, plastic bags, baby bottles, mattresses, milk cartons, toilet seats, alkaline batteries, gasoline cans, aluminum foil, and large plastic storage tubs.

ecomaine.org:

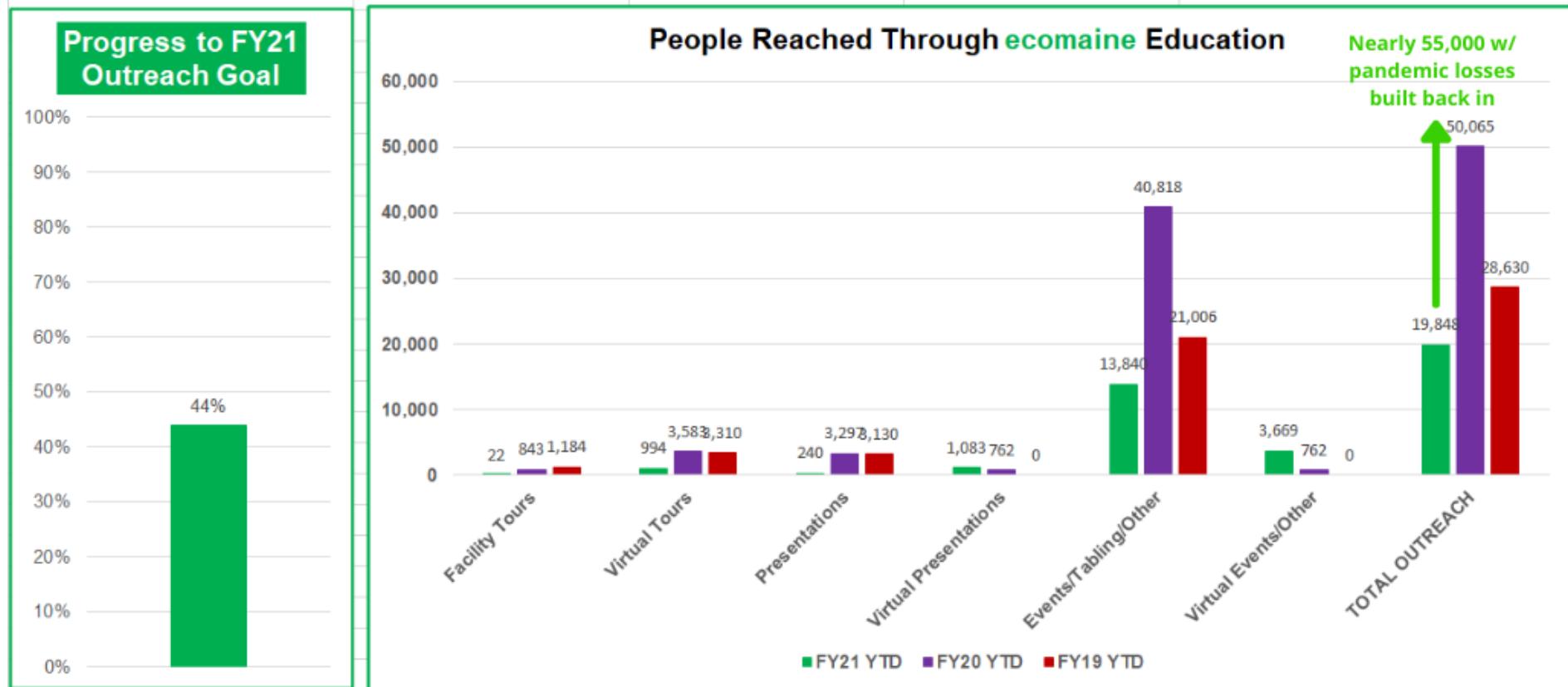
- Total March web traffic was down 5%, compared to February; compared to March 2020, this is up 29%.
- Total Page views increased 4% from February to March; this is up 39% from March 2020.

Social Media Stats:

- **Facebook:**
 - Gained 24 new followers in March (3,186 total)
 - Our top organic post, with 754 interactions, was a post calling for Upcycle entries by students.
 - Our average daily organic post reach was 310 users in March.
- **Twitter:** Twitter followers increased by 7 to 890 in March, and earned an average of 12,000 tweet impressions, with the top tweet (3,037 impressions) being a post promoting ecomaine education.
- **Instagram:** We had 18 Instagram posts in March, which generated 814 likes. We gained 25 new followers for a total of 1,968.

FY21 ecomaine Outreach Summary

	FY21 YTD	FY20 YTD	FY19 YTD	FY21 GOAL
Facility Tours	22	843	1,184	250
Virtual Tours	994	3,583	3,310	3,225
Presentations	240	3,297	3,130	900
Virtual Presentations	1,083	762	0	2,250
Events/Tabling/Other	13,840	40,818	21,006	30,625
Virtual Events/Other	3,669	762	0	8,000
TOTAL OUTREACH	19,848	50,065	28,630	45,250



March 2021 Outreach

3/1/2021	Virtual Tours	South Portland HS	11	South Portland	Katrina	High School
3/2/2021	Events/Tabling/Other	Scarborough Meal Site	55	Scarborough	Vanessa	Adult
3/3/2021	Virtual Presentations	Gray Adult Ed RCY	8	Gray	Lena	Adult
3/4/2021	Events/Tabling/Other	Saco Meal Distribution	250	Saco	Vanessa	Adult
3/4/2021	Virtual Presentations	Casco Bay HS	8	Portland	Katrina	High School
3/4/2021	Virtual Tours	Kaler-Vaill Senior Housing	15	Scarborough	Vanessa	Adult
3/5/2021	Virtual Presentations	Waste Audit - Bonny Eagle MS	45	Standish	Vanessa	Middle School
3/5/2021	Virtual Tours	South Portland HS	8	South Portland	Katrina	High School
3/5/2021	Virtual Presentations	Casco Bay HS	9	Portland	Katrina	High School
3/6/2021	Events/Tabling/Other	Mitchell Institute Employer Expo	47	Other	Vanessa	High School
3/8/2021	Facility Tours	New Intern Tours	2	Other	Lena	Adult
3/8/2021	Virtual Tours	South Portland HS	11	South Portland	Katrina	High School
3/8/2021	Virtual Presentations	Bonny Eagle MS Jeopardy	35	Standish	Vanessa	Middle School
3/9/2021	Virtual Presentations	Info Session on Master Recycler	25	Other	Vanessa	Adult
3/9/2021	Virtual Tours	Kittery Adult Ed WTE	7	Kittery	Lena	Adult
3/9/2021	Virtual Tours	Peaks Env. Action Team	28	Portland	Katrina	All Ages
3/10/2021	Virtual Tours	Sanford Middle School	200	Sanford	Katrina	Middle School
3/11/2021	Virtual Presentations	Bonny Eagle MS Jeopardy	40	Standish	Vanessa	Middle School
3/11/2021	Events/Tabling/Other	Silver Bullet Tabling	60	Scarborough	Lena	All Ages
3/11/2021	Virtual Presentations	Midcoast RCY Presentation	8	Camden	Lena	Adult
3/12/2021	Virtual Presentations	Sanford Middle School	200	Sanford	Katrina	Middle School
3/12/2021	Virtual Tours	South Portland HS	8	South Portland	Katrina	High School
3/15/2021	Virtual Events/Other	MRPA Spring Conference	65	Other	Vanessa	Adult
3/15/2021	Virtual Tours	USM Portland	14	Portland	Katrina	College
3/16/2021	Virtual Presentations	Loranger MS Jeopardy	25	Old Orchard Beach	Vanessa	Middle School
3/16/2021	Virtual Presentations	Maine Campus Compact Papermaking	4	Other	Vanessa	College
3/17/2021	Virtual Presentations	Unity College Job Fair	2	Other	Katrina	College
3/17/2021	Virtual Presentations	Environment Maine Presentation	26	Other	Vanessa	Adult
3/18/2021	Virtual Tours	Climate Change Action Group	30	Other	Vanessa	Adult
3/23/2021	Virtual Presentations	Kittery Adult Ed Compost	6	Eliot	Lena	Adult
3/23/2021	Virtual Tours	Portland Community Squash	15	Portland	Vanessa	Adult
3/24/2021	Virtual Tours	Portland Community Squash	15	Portland	Vanessa	Adult
3/24/2021	Virtual Tours	ME College of Art	14	Portland	Katrina	College
3/25/2021	Virtual Tours	Portland Community Squash	15	Portland	Vanessa	Adult
3/25/2021	Virtual Tours	Gorham Daisy Scout Troop	8	Gorham	Vanessa	Elementary
3/25/2021	Virtual Tours	Windham WTE Virtual Tour	3	Windham	Lena	All Ages
3/25/2021	Virtual Presentations	Gray-NG HS Presentation WTE/Compost	14	Gray	Lena	Grade 12
3/26/2021	Virtual Presentations	Gray-NG HS Presentation WTE/Compost	10	Gray	Lena	Grade 11
3/26/2021	Virtual Presentations	Ocean Ave. RCY Project	3	Portland	Katrina	Elementary
3/30/2021	Virtual Presentations	Thornton Academy Env. Club	7	Saco	Vanessa	High School
3/30/2021	Virtual Tours	Thornton Academy Env. Science Class	9	Saco	Vanessa	High School