



THE PANTHER PRIDE

Middle School Edition

Clean-Up Week

You gotta love clean up week!

For some of us, it's a time to purge and get rid of the clutter and junk that we have been clinging to. For others, "One person's trash is another person's treasure"!

Southeast Eco360 is the company that manages our recyclables and waste in the most **sustainable** and **efficient** way possible. Years ago, communities had a much different way of disposing of their garbage...community dumps. We would literally toss our garbage into a pit or on a pile where it was then burned and/or buried. We now know that was not a good way of disposing of our garbage. Thank goodness we now have companies like Eco360 who make it their mission to manage it in a sustainable way.

Upcycling is a new term. It means to take useless, unwanted, waste materials, and transform them into something of value or use. It's also known as "**creative reuse**".

Your Challenge:

Create something from scrap or waste material.

Now That's Useful

Recycled Art

A few years ago, we had a fair in the middle school called the recycled art challenge. Students took things that they would have thrown out and created a work of art. Some of the most common items were bottles, cans, cardboard, newspaper, egg cartons, etc. The challenge was NOT to spend a cent.

Imagine & Design

- Do I start with an **idea** or **materials**?
 - ✓ **Idea** = I want to make a go cart...now what do I need?
 - ✓ **Materials** = I have a lot of spare lumber, cans, and cardboard...what can I make?
- Do I want to make something that is **decorative** or **useful**?
- Do I want to make something that **solves** a problem?
 - ✓ I need a stand for my guitar.
 - ✓ I need a book shelf.



Materials

Whatever materials you use, make sure they are clean and safe. And it wouldn't hurt to ask the adult(s) at home if you can use the materials. Start thinking of ideas at the beginning of the week. That way, you can look at the waste you are throwing away with the thought in the back of your mind...could I use this?!



Build

Safety first! If you're using power tools, ask for help. Goggles are good too. Be careful and safe!

[How to make a go-cart](#)

[How to make a piggy bank](#)

Test & Redesign

If you are making a piece of art, get other people's opinions and ideas. If you are designing a product, put it to the test. Make **adjustments** to maximize its use.

The Lowdown on the Breakdown

How long does it take for items to break down?

This graph (right) and the following [video](#) can provide you with some useful information when answering question 3. Here is the link: <https://www.youtube.com/watch?v=mA608GJ-FzM> Also, consider the following questions while watching the video:

1. Why is it important to recycle at home? If you put recyclable products in the garbage, will someone sort it for you at the dump? Explain why.
2. Name some products that you should really avoid throwing in the garbage. Explain why.
3. Name some reasons why people produce so much waste.



On What Side Of the River Are You?

The Petitcodiac River Debate

The river is approximately **79 kilometres** long. The **Mi'kmaq** were the first to settle the river. It was used as a means of **transportation** between Shubenacadie and Petitcodiac. After colonization, it



served as an important **passageway** for shipping supplies and essential goods to new communities and the first Europeans to enter NB.

In 1968, a **controversial causeway** was built to connect Moncton to Riverview which **obstructed** the flow of the river. The **tidal bore** which was once so large it could be surfed on shrank, and 6 native fish species have disappeared. In 2010, the government of NB opened the causeway and began the planning of a large 4-lane highway to replace the causeway to restore it at a cost of **68 million dollars**.

Consider the Following:

- Why** did they build the causeway in the first place? What problem were they trying to solve?
- What are some **pros** and **cons** that resulted after the causeway was built?
- Do you think it is a good idea for the government to replace the causeway with the **4-lane highway**? Explain.

Activities:

- Construct a Venn Diagram showing the arguments of the **River Keepers vs Lake Keepers**. Write a short paragraph stating your opinion on which body of water is most important. ([PDF of a Venn diagram](#))
- Find the **monument** for the Petitcodiac River and take a picture of it. Post the picture on Teams.
- Take a picture of the Petitcodiac River before and after the **Tidal Bore** passes through.
- Contribute to the **poll** on Teams - Which side are you on: The Riverkeepers **OR** The Lake Keepers.



One Side - The Lake Keepers

“Restoring the Petitcodiac River would see the new Lake ecosystem destroyed”

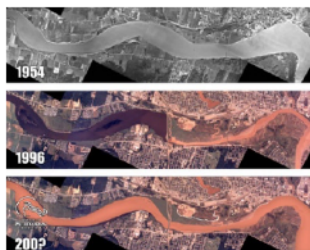
- The lake keepers believe that the new lake created is a valuable **ecosystem** that should be preserved.
- If the river were to be restored, the **freshwater** lake would ultimately suffer.
- They are concerned that if the river were to be restored, it would **contaminate** the water due to leachate pollution from landfills and water treatment facilities.
- They worry that clearing all obstacles from the river to increase its flow will cause man-made **riverbanks** to implode and cause irreparable damage to riverfront property.
- If the lake disappears, the small community around it will suffer.
- “It will become a muddy tidal river that won't be used for **recreation**” – Kevin Campbell



The Other Side - The Riverkeepers

“Restoring the River ecosystem is more important than a lake caused by human interference”

- In 2003, the river was ranked **second** on a list prepared by B.C. environmentalists of the most **endangered rivers** in Canada.
- New legislation against the obstruction of the natural flow of **flora** and **fauna** in running water makes the causeway a possible violation.
- The river is home to many **fish species** which have since disappeared due to the damage people have done to the river.
- Atlantic salmon, American eel, American shad, striped bass, tomcod, gaspereau, brown bullhead, white perch, and suckers are all **native species** of the river. Their numbers have dwindled since the causeway was built.
- Historically, it is a significant part of NB **history** and deeply important to **First Nations**.
- The river promotes **tourism** and could be a benefit to the **economy** if restored.



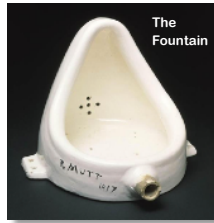
1954: Before the causeway
1996: Damage caused by causeway
2000s: The river slowly restoring after the causeway reopened.



Is That Art?

If an artist says it's art...IT'S ART

Marcel DuChamp (1887- 1968) was one of the most outlandish artists who ever lived. He liked to **experiment** and was not drawn to any one artistic style. What many art critics remember him most for are his **ready-mades**, objects that were already made. Some say that his ready-made urinal, which he called **The Fountain**, changed the way we look at art forever. Apparently at an art exhibit in 1917, Duchamp plunked the urinal down with a signature of R. Mutt. Fellow artists and critics were astounded, but Duchamp replied that, "If an artist says it's art, it's art." With this week's theme in mind - making something out of useless, unwanted, discarded things – come up with **your own ready-made**. Paint it, put it on a base and give it a name. Have fun with this one!



Upcycled Music



How many times have you found yourself banging out a rhythm on an old bucket?

As you're cleaning up, look around for something that you could use for rhythm and an instrument that has a pitch. In music class during January and February, you were focusing on rhythm in music. **Rhythm** is the repeated pattern or heartbeat of a piece of music. So your music challenge this week is to look for ways you can **create** different **rhythm patterns** on your own **recycled instruments**.



Find The Missing Number

+ + = 36
 X + = 158
 X + = 32
 + X = ?

+ + = 18
 + + = 2
 + = 2 -
 + = 12 +
 + X = ?

This Week's Schmath Problems

Monday	Karen can clean up a yard in 1h30m on average. When her friend Trina helps, they can finish a yard in 1 hour. If Brett comes too, they can finish in 30 minutes. Each 100% cleaned yard pays \$30 . Would Karen make more money working on her own for 8 hours or working with her two friends and splitting the money?
Tuesday	Choose a door in your house. Calculate the total surface area of that door in cm. Don't forget the surface area of the top, bottom and sides. Ignore the area of the doorknob. Extra challenge: DON'T ignore the area of the doorknob.
Wednesday	A third of all cars on the road in the Canada could eventually be powered by 'biogas,' made from human waste, plant products and other renewable elements. If there were approximately 27.9 million cars in 2025, how many would be powered by 'biogas'?
Thursday	Which would you rather have: \$5 every minute for 5 months or 1 million dollars ? Explain your choice using mathematical thinking.
Friday	Josh had 1/2L of juice in his bottle. He drank 3/8L of the juice. What fraction of the juice is left in the bottle?

Last Week's Answers

+ + = 24
 + + = 18
 + = 12
 + + = 6
10 - + + 5
 - = 8
8 - =
 + + + = 10
 + X = 28

Monday	4000 ounces of water is needed in total.
Tuesday	It will take them 15 years to be at the same location again.
Wed.	It has been 177 years.
Thursday	Answers will vary.
Friday	It will take 17 hours and 36 minutes.

Mindful Minute



Texting with your eyes closed...and no peeking.

Try to text this sentence.

"I am more aware of my keyboard."

Une rivière de déchets!

Les mots importants



Video: [Que se passe-t-il lorsqu'on jette des déchets?](#)



Pensez-y

- ➔ Comment te sens-tu en regardant la photo?
- ➔ Selon toi, comment est-ce que ces déchets se sont rendus dans la rivière?
- ➔ Qu'arriverait-il si l'eau de cette rivière s'évaporerait... et retombait sur la terre?

C'est à ton tour!

Crée une affiche pour encourager les gens à bien prendre soin de l'environnement. Place la photo de ton projet sur Teams.

Voici des exemples des élèves de Mme. Riatt:



Moncton Landfill

Landfill video

The following footage of the Moncton landfill in the winter was taken by a teacher in middle school who would correct anyone for using the term 'seagull'. With this in mind, look at the pack of 'gulls' swarming around the dump! Why do you think they are flying over it? Now, let's wonder who that teacher could be?
Hint: His name rhymes with referee!

