

Mathematics

To find our previous newsletters, click the link found here: [STEM East Newsletters](#)

Kakuro Addition Puzzle

Use the digits 1 to 9 to fill the empty cells so that the sum of each horizontal block of cells equals the clue number on its left, and the sum of each vertical block of cells equals the clue number on top. Each digit can only be used once per block!

	18	14	17
16	5		
12		4	
21	7		6

Visit the following website for more Kakuro puzzles:
<https://www.mathinenglish.com/puzzlevew.php?id=325&pstid=701>

Between 2 Numbers



The average flow rate of a kitchen faucet is about 8.3 litres per minute.

An Olympic-sized pool can hold about 2 500 000 litres of water.

About how long would it take to fill up an Olympic-sized pool with a kitchen faucet?

Test your skills with some other questions in the link below:

<http://www.between2numbers.com/>

Riddle Me This



In a new hotel with 100 rooms, Tom was hired to place the room numbers from 1-100 on the doors using double sided tape.

How many number 8s will Tom have to use to complete his task?

Once you figure it out challenge a friend and discuss your answers.

Hug a Tree

Find the most perfect tree you can with a round tree trunk. If you can't find one with a really round trunk, a nearby lamp post will also do. Hug that tree like you've never hugged a tree before! Find the tree's diameter, without damaging the tree of course. You can use any previously practiced skills plus any mathematical tools you have at your disposal to solve this challenge!



Want to share what you are doing from this newsletter?

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For more information, contact Bryan Ouellette Subject Coordinator for Math & Science 6-12
bryan.ouellette@nbed.nb.ca

Science

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Lessons from Mother Earth-Rock Skipping

"In the Anishinaabe teachings, Nibi (water) is the blood of Aki (Earth), the giver of life – a sacred energy that is part of us, flowing within and between us." <https://theconversation.com/children-make-connections-to-aki-earth-through-anishinaabe-teachings-133669>.

The classroom is one place where learning happens, but it is not the only place. The water and land provide plenty of opportunities to learn. Indigenous People have known this since time immemorial and it is embedded in their Worldview and Relationship with Mother Earth.

With parental permission, visit a lake or pond and try your hand at rock skipping. What variables affect how far the rock travels or the number of times it skips? Does the shape of the rock matter? For more tips on rock skipping, visit: <https://rhythmsofplay.com/how-to-skip-rocks-the-art-and-science-of-skipping-stones/>.

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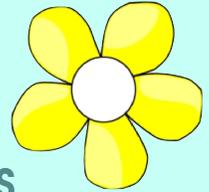
('Water is Life' - translation provided by Joan Milliea, Mi'kmaq Language Keeper)



Paper Flowers

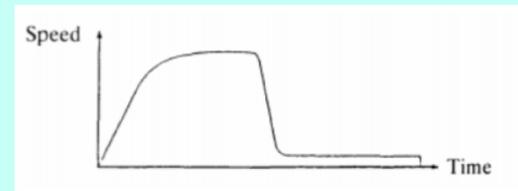
Cut out some flowers using different types and sizes of paper, fold the petals in towards the center and place them all in a bucket of water at the same time. Make a prediction. Watch what happens and compare your results. What could you change to alter the outcome?

<https://twitter.com/DrJoScience/status/1252167671401132032?s=19>



Graphing Stories

Can you come up with a scenario where each sport could be modelled by the graph? Explain and defend your thinking to a family member.



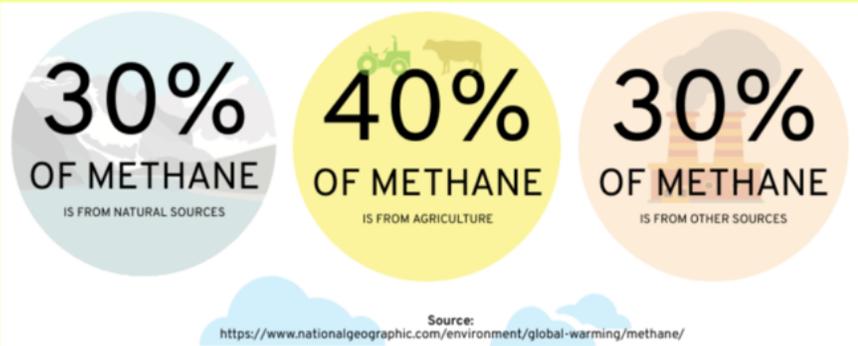
For more challenging, real-time graphing activities, visit <http://www.graphingstories.com/>

Golf
Skydiving
Fishing

100-yard dash
Drag racing

Greenhouse Gas Emissions

Methane makes up 16% of the world's greenhouse gas emissions. A proportion of this Methane comes from livestock (cows, pigs, sheep, etc.) used in agriculture. One possible solution to this problem has been for scientists to attempt to grow cultured meat in a lab. What do you think of this solution? Can you research any other methods, or develop your own, to reduce the amount of methane that is being produced? For more information, visit: <https://letstalkscience.ca/educational-resources/stem-in-context/cows-methane-and-climate-change>



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