



Learning Opportunities for Grade 8 Prime Week of June 1st

School Vision: *Motivating, Compassionate, Successful*

School Mission: *Making a difference....Committed to learning.....Supporting each other*

Do the best you can! Focus on life skills, physical activity, mental well-being, creative expression, social responsibility and social connections. Stay healthy and safe!

Try to work on the learning opportunities for 2 hours each day.

Math Learning Opportunities

Choose from these tasks for a total of 30 minutes a day.

This week is all about **Algebra and solving equations with some Geometry fun!** If you get stuck, feel free to contact your teacher. Once you feel you have a good understanding of the material, try out the escape room. Can you beat the clock and escape?!? Maybe phone a friend and try it together. Have fun!

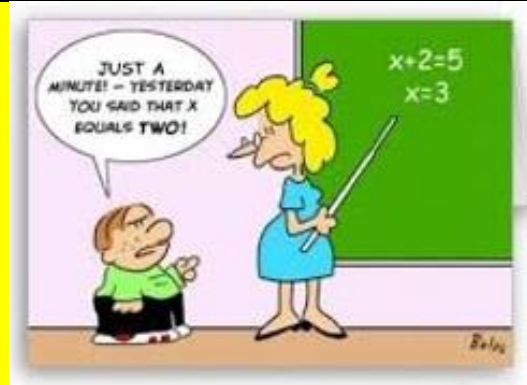
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I know the word Algebra scares some of you. Don't worry. It just means we're solving for

something unknown. You've been doing this for years, but instead of just having $__ + 2 = 5$ using algebra we just replace the $__$ with a letter. It can be any letter, but often we use x, so we say $x + 2 = 5$ therefore $x = 3$

SOLVE THE SYSTEMS OF EQUATIONS

| | |
|---------------------------------|---------------------------------|
| $y=2x+1$ $y=3x-1$ (2,5) | $y=5x+2$ $y=10x-3$ (7,1) |
| $y=-4x+1$ $y=2x-7$ (4,1) | $y=3x+3$ $y=5x-3$ (3,12) |
| $y=x+1$ $y=2x-4$ (5,6) | $y=10x-2$ $y=8x+2$ (18,2) |
| $y=7x-4$ $y=2x+6$ (2,10) | $y=4x+5$ $y=2x-1$ (-3,-7) |
| $y=3x+8$ $y=6x+11$ (1,-5) | $y=4x-3$ $y=-2x+15$ (3,9) |

THINK, PICK, FLIP, CHECK

See how good you are at solving and checking equations with this game of [Think, Pick, Flip, Check activity.](#)

+ + = 36
 + + = 28
 - = 3
 = ? = ? = ?

Can you figure out what each is worth? Find more puzzles at [Algebra Puzzles](#)

Find a value for each icon in the area model below so that it represents the value 384

| | |
|-----|----|
| | 4 |
| 200 | |
| | 24 |

Give these [Can You Figure It Out puzzles](#) a try!



= 2 =

Try out some [Mobile Puzzles](#) online.

Balance Math



See if you can figure out the missing values on these [Balance Math](#) problems.

In the triangle below, the sum of the four values on each side is 17. Using each of the values beneath the triangle only once, assign a number to each emoji that completes the triangle.



3 4 5 6 7 8 9

Math and Logic Puzzles

If you REALLY like exercising your brain, figuring things 'round and 'round till you explode, then this is the page for you!

Whosoever shall solve these puzzles shall Rule The Universe!

... or at least they should ...

Try these [Math is Fun Puzzles](#)

PENGUIN MULTIPLICATION

Find a partner, 2 dice, and some game pieces. Take turns rolling the dice, saying the product, and covering it with a game piece. The first person to cover 11 in a row wins the game! The row may be vertical, horizontal, or diagonal. If you can't find your product, you lose your turn!

| | | | | | |
|----|----|----|----|----|----|
| 12 | 3 | 4 | 10 | 12 | 6 |
| 2 | 15 | 3 | 25 | 4 | 4 |
| 20 | 5 | 1 | 20 | 15 | 24 |
| 36 | 6 | 30 | 8 | 10 | 18 |
| 6 | 18 | 5 | 30 | 12 | 8 |
| 24 | 4 | 18 | 2 | 30 | 24 |
| 4 | 12 | 25 | 6 | 16 | 15 |

Play the [Penguin Multiplication game](#) with someone to test out your math facts and your game strategies. Good luck!



You are a detective trying to solve your hardest case yet, but there's another spy detective trying to solve the case before you! Use the coordinate grids on page 2 to discover your opponent's tools before they are able to solve the case!

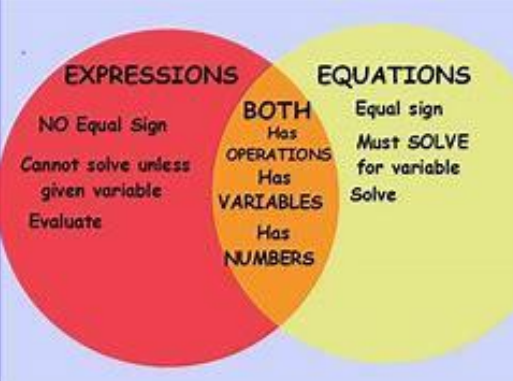
Play [Find the Spy](#) or a game of [Battleship](#) if you have it to see if you can locate your opponents grid points.



Draw and colour some 2D or 3D shapes to create a piece of Art!



Check out these bugs!
Notice how they are symmetrical? Check out the [bug symmetry templates](#) and try your hand at drawing some of your own! Look for bugs outside to observe. Are they symmetrical?



Make sure you know the difference between expressions and equations for the

Here are some video links explaining how to solve equations. You will need to know this to solve the escape room. Check them out!

- <https://www.youtube.com/watch?v=kWOTmyoaWJg>
- <https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-variables-expressions/cc-7th-2-step-equations-intro/v/why-we-do-the-same-thing-to-both-sides-two-step-equations>

escape room.

Lord Voldemort has been defeated but he still has loyal followers making trouble for Harry Potter. Solve the clues and help Harry restore order in the magical world before the muggles find out.

<https://platform.breakoutedu.com/game/play/harry-potter-and-the-numerals-of-dire-175083>



Language Arts Learning Opportunities
Choose from these tasks for a total of 45 minutes per day
+30 minutes per day of Reading

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Grammar

Check out this link to learn about the different types of poetry.
<https://www.penguin.co.uk/articles/children/2019/oct/different-types-of-poetry-for-kids.html>

Word Work

Learn about the different styles of poetry with these great online games.
<http://www.wordgametime.com/subject/poetry>

| | |
|-------------------------------|---|
| Poetry | <p>Read the poem The Road not taken by Robert Frost and respond to the poem using the questions below.</p> <p>https://www.poetryfoundation.org/poems/44272/the-road-not-taken</p> <ol style="list-style-type: none"> 1. When Frost arrives at the divergent paths in the woods, what is he physically seeing? Why is he sorry he cannot travel both? 2. "I looked down one as far as I could to where it bent in the undergrowth." Explain what the author was trying to do. What is it a metaphor for? 3. What path did Frost choose and why? 4. Frost keeps the second path for another day. What does he mean by this? Does he think he will ever come back? Why or why not? 5. When is Frost telling this story? 6. What is the main theme of the poem? What does the author want us to learn about his life? 7. Frost took the "road less travelled by" Explain the impact this has had on his life. <p>To learn how Robert Frost used metaphors in his poetry, head to Mr. Mckinley's blog and check out the comic resource. www.mcsmkkinley.weebly.com.</p> |
| Author Study: Sheree Fitch | <p>Check out this local author's website. Sheree Fitch wrote the well known book Purple Murple, The Toes in My Nose and uses poetry in her stories.</p> <p>https://shereefitch.com/</p> |
| Writing Poetry | <p>Use this cool website to practice creating different poems of your own. Try a variety of poems. Feel free to send them to your teacher.</p> <p>https://www.poem-generator.org.uk/</p> |
| Poetry | <p>Read/Listen to 3-5 poems of your choice and respond using the questions below.</p> <p>https://www.poetryfoundation.org/podcasts</p> <ol style="list-style-type: none"> 1. Which poem did you like and why? 2. Can you identify what type of poetry it is? 3. Did the author use any metaphors or similes? 4. What is the message/theme of the poem? |
| Log/Journal | <ul style="list-style-type: none"> • Keep a daily log/journal of what is happening in your life, your community, your country, or around the world. • Keeping a journal not only helps your writing, but can be very therapeutic |

Reading
Epic!

Mrs. Elliott has signed everyone up for Epic!
This is a great website for reading.

<https://www.getepic.com/sign-in>



Once you have reached the site, go to student login and use class code: **iej3195**

Public Library

Keep an eye on the public library as its opening SOON! This will be a great opportunity to nab some new books to read.

The building will be open to go look at books but they also have an amazing online service. You can browse the books and request "a hold" on the books you want. They will send you an email when the book is ready for pick up! This allows you to borrow books from all over the province and does not limit you to the selection they have at Woodstock.



All you need is your library card and the following link:

https://nbpl.ent.sirsiidynix.net/client/en_US/default/



Science Learning Opportunities

Choose from these tasks for a total of 30 minutes a day.

This week we focus on **The Earth's Crust!** Pick any of the activities you'd like to try. There are several links within the document to help you out.



Remember that science is all about discovery and trying to find out how and why things work.

Don't be afraid to make your observations by taking pictures or videos. Have fun!

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Simple Science
For Kids:
Fold Mountains



Try this Fold Mountain experiment.
Use some different coloured towels and lie them flat on the table. Put a couple of boxes or totes on either side of the towels and start pushing them together. Step back and see what you notice.

Learn [How Fold Mountains Form](#) in nature.

This [Fold Mountains](#) song might help you understand more about how mountains form.



Check out this [Earthquake Experiment](#)

- metal cookie sheet
- wooden blocks
- [Lego bricks](#)

Directions: First build a tower using blocks on a baking sheet. Second, Have two people sit on either side of the cookie sheet and shake it as if there were an earthquake. What happened? The metal cookie tray is meant to represent a tectonic plate and the shaking represents the shifting that happens with an earthquake. Now build a new tower approximately the same size out of lego. Like the first time, place it on the tray and shake. What do you notice? Are there structures that are built to stand up better in earthquakes? Do some research to find out.



Who doesn't like volcanoes?

Build a Volcano!

Maybe it's a Lego Volcano? Maybe you build it out of clay and a bottle? Or aluminum foil and a glass jar? There are lots of ideas and instructions online.

Just be sure to clean up your mess!



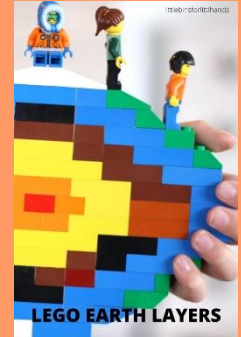
Earth Structural Layer Cake



The Earth is made of many layers. Do some research on [The Layers of Earth](#).

Can you make a cake to represent the layers of the Earth's Crust?

Maybe build it out of clay or playdough? Or perhaps you can build a model out of Lego.



Do some research on volcanoes.

What are the main [types of volcanoes](#)?

Where do [volcanoes occur](#)? What are some [famous volcanoes](#)? Learn about the birth of the [Paricutin volcano](#).



Make some [Layers of the Earth Pudding Cups](#).

Teach your family about the Earth's layers with this easy dessert!



What's the [Pacific Ring of Fire](#)? Does it have anything to do with Johnny Cash's song [Ring of Fire](#)?



Learn some [facts about earthquakes](#). What are some [famous earthquakes](#)? [Where to earthquakes occur](#)?

Social Studies

Choose from the activities below for a total of 1-2 hours a week. Remember that Social Studies is all about the world around us. Watch the news, visit a museum or research some Canadian history.

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Daily News

CNN 10 in 10 is a current events/news broadcast made especially for students. The shows are ten minutes long and show one major news story, a human interest story and trivia. There are five shows a week Monday- Friday. They can be watched on YouTube or the CNN Ten in Ten website. Previous shows are viewable as well.

Pick at least one day to view and reflect on the chart below or watch every day!



CNN Student News

1. Write a reflection on what you learned

List 5 things that you learned.

Explore a Virtual Museum

This week we are going to connect to our Language Arts focus – Poetry. These sites are a combination of famous poet’s museums and fun links to practice your own poetry!

Robert Frost (Nature Poet) – Click on museum and continue to scroll down to see pictures of the house where Frost wrote much of his poetry and the grounds that inspired them.

<https://frostplace.org/museum/>

https://kids.kiddle.co/Robert_Frost

<https://www.emilydickinsonmuseum.org/> - A little bird came down the walk....

<http://www.shelsilverstein.com/> - An interactive site with poems, games and activities to test your poetry skills! Earn more about the author! **Shel Silverstein!**

Learn all about your first favorite poet! **Dr. Seuss!**

<https://www.seussinspringfield.org/amazing-world-dr-seuss-museum>

This Day in History

Many of our days in these past few months could be deemed historical, but what was going on in other time periods of history? Over the next week, keep a log of the most important events of years past. How do the events compare with our current historical moments? Are there some similarities that you can see?

There are several websites to help you with your web quest. You won’t be able to list everything but put down what you feel to be the most important and/or impactful. Happy History Hunting!

You can also look up your birthday on Ducksters to tell you all the important events that happened on your birthday!

<https://www.ducksters.com/todayinhistory.php>

<http://www.thisdaytrivia.com/> - has great explanations of each event and a puzzle to solve!

<https://www.history.com/this-day-in-history> - from the History Channel!

<https://canadachannel.ca/tch/> - click on today’s date for all events Canadian!

* Pick at least three days to discover!

Date: Event: Importance:

This Day in History Continued...

Next, do a deeper dive into one of the events you found. Which one did you want to find out more about? Use the questions below to write down your research.

Title of Event

What Happened?

Why was it important?

Important People?

Was this a good event or a bad event? Why?

What was the impact on the future?

What are your thoughts on what happened?

Source(s)



Physical Education at home

June 1-5

Walking around New Brunswick Challenge



Walk! Walk! Walk!

The weather is getting beautiful and it is a great time of the year to walk and get some exercise. Mr. King and I are challenging you to keep track of your kms and log them on the MCS Facebook page as we attempt to collectively walk around NB. I am challenging all family members to get involved in this activity. Let's see how fast we can do this! We'll keep you updated!

Here's a couple of links if you want more activities to keep you busy.

https://docs.google.com/presentation/d/e/2PACX-1vRjNs_auFzjjePNijl4fe98zQAJAywccFo4XcGj1pioRDSbMebpdwYo5kciNNWgcezfyyUIKktZ_HWxz/pub?start=false&loop=false&delayms=3000&slide=id.g1e625af7ac_0_17

<https://whatchaknowjoe.wordpress.com/>