

Grade 8

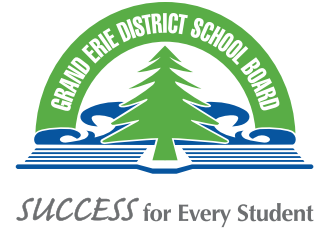


Literacy Calendar

Grand Erie values languages and home cultures. We invite all our families and students to complete some of these activities in English, French, or their own first/home language.

Date	Activity
Monday, May 11	<p>Puns – What’s so Punny?</p> <p>A pun makes a joke by exploiting different meanings of a word. It is used in speech or in our writing to add humour and interest to a topic. For example, “I’ve been to the dentist many times, so I know the drill.” Try to create a list of as many puns as you can. Share favourite ones with family or friends.</p>
Tuesday, May 12	<p>Write down your favourite quote or saying. Explain your interpretation of this quote, perhaps the author’s intended meaning and why it resonates with you.</p>
Wednesday, May 13	<p>We read different texts for different purposes. Some examples of texts are poems, autobiographies, scripts, manuals, charts and graphs, diagrams, etc. Create a list of reasons why readers read what they do? Can you think of several reasons why a reader would read a set of song lyrics or a page from an encyclopedia?</p>
Thursday, May 14	<p>Engage in another Role. Audience. Format. Topic activity! First you need to decide on the role [R] you will take as a writer. Who or what is the author? You could write being you, but you could also choose to write from the perspective of the mayor, an artist, a journalist, or a thing like a tree, or a pencil. Example: A house plant Next, decide who you are writing for. Who will be the audience [A]? Example: all of the furniture in the room ***Tomorrow will focus on [F] & [T]</p>

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Date

Activity

**Friday,
May 15**

Continue with R.A.F.T. Time to think of a format [F]. Is this going to be a story about a topic? Maybe a video? How about a voice recording of an interview?
Example: A personal recount

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SUCCESS for Every Student

Numeracy Calendar

Date	Activity
Monday, May 11	<p>Multiply the following fractions and use a model to show what each quantity looks like.</p> <p>a) $\frac{1}{3} \times \frac{1}{6}$ b) $25 \times \frac{4}{5}$ c) $\frac{5}{6} \times \frac{3}{4}$</p>
Tuesday, May 12	<p>Calculate and compare the volumes of the two cylinders that can be created by rolling a standard size of paper two ways: taping the top and bottom, or the long two sides. What do you notice? What do you wonder?</p>
Wednesday, May 13	<p>If rectangles are similar it means that the ratio of the longer dimension to the shorter dimension is the same between the rectangles. Construct three similar rectangles, using grid paper, and compare the perimeters and areas of the rectangles. What do you notice? Why do you think this is? Does this same relationship exist between the area and perimeter of similar triangles?</p>
Thursday, May 14	<p>What is the value of the variable in the equation $30x - 5 = 10$? In words, this equation is saying that 5 less than 30 times something is equal to a quantity of 10. What situation might this equation be explaining?</p>
Friday, May 15	<p>The game of Bingo uses the numbers from 1 to 75. If the numbers are pulled at random, what is the probability that the first number is a multiple of 5? Is not a multiple of 5?</p>

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SUCCESS for Every Student

Numeracy Calendar

Sources:

Teaching Student-Centered Mathematics 2nd Edition, .J Van de Walle

DREME Development and Research in Early Mathematics Educations

Open Questions for the Three-Part Lesson. Measurement / Patterning and Algebra. Grades 4 – 8, M. Small

Leaps and Bounds – Grade Three and Four, M. Small

Ministry of Education: Ontario Mathematics Curriculum; Grades 1-8, 2005

Which One Doesn't Belong?; <https://wodb.ca/shapes.html>

<https://nrich.maths.org/eggsinbaskets>

<https://thelearningexchange.ca/wp-content/uploads/2017/01/Number-Sense-and-Numeration-1-3-Revised.pdf>

<https://mathclips.ca/swfPlayer.html?swfURL=tools/PatternBlocks1.swf&title=Pattern%20Blocks%2B>

<https://nrich.maths.org/221> - Chain of Changes

<https://nrich.maths.org/137> - Three Block Towers

<https://thelearningexchange.ca/wp-content/uploads/2017/01/Number-Sense-and-Numeration-1-3-Revised.pdf>

<https://oame.on.ca/eduproject/ontariomathresources/files/Patterning%20and%20Algebra%20K-3.pdf>

<https://www.eqao.com/en/assessments/primary-division/assessment-docs/g3-geometry-spatial-sense-strand-2012-2016.pdf#search=geometry> – image of coordinate grid

<https://nrich.maths.org/141> - four triangles puzzle

<https://oame.on.ca/eduproject/ontariomathresources/files/Data%20Management%20and%20Probability%20K-3.pdf> – missing titles

CEMC courseware <https://courseware.cemc.uwaterloo.ca/>

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Science

May 11 - May 15

Understanding Matter and Energy – Big Idea:

Fluids have different properties that determine how they can be used.

Option 1

Buoyancy is the tendency of matter to rise or float in a liquid.

Fish have an organ called a swim bladder which they use to fill with water or air to increase or decrease their position in the water column. Using two large glasses and two smaller glasses that fit into the larger ones we can experiment with the buoyancy of different liquids. Fill one large glass with water and the other with shampoo. Fill the two small glasses with equal amounts of water approximately $\frac{1}{4}$ full. Before putting the small glasses into the larger ones make some predictions about what you think will happen. Will both glasses submerge the same distance into the fluids? If not, which will submerge further and why?

Option 2

On April 20 2010 the Deepwater Horizon oil drilling platform in the Gulf of Mexico had a mechanical error which caused the release of oil into the ocean. Follow the link to read more about this event

school.eb.com/levels/middle/article/Deepwater-Horizon-oil-spill-of-2010/544332

Using this article and further online research answer the following questions:

How much oil was spilled?

How much oil was able to be removed from the ocean in a clean up attempt?

How much did it cost to clean up?

What countries were affected?

Who were the people involved and how are they still being affected?

How were the environment and animals affected at the time and are there still lingering affects being felt?

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Science

May 11 - May 15

Understanding Matter and Energy – Big Idea:

Fluids have different properties that determine how they can be used.

Option 3

Hydraulics is the study of pressure in liquids. Using this link:

school.eb.com/levels/elementary/assembly/view/170336

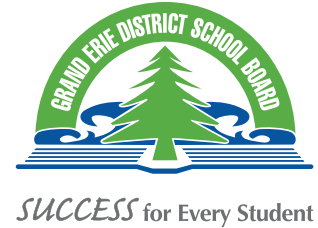
Create a list of hydraulic systems you have seen or used.

Can you create a hydraulic system using a syringe, hoses, and a fluid of your choice? Create a detailed diagram of the system and the fluid being used. Why did you choose this fluid?

Prompts for discussion:

- What is the upward force keeping the glasses from sinking called? How can this information be related to real life? What uses does it have?
- How do hydraulic systems make our lives easier? Most rely on a type of oil as the fluid being used which has environmental impacts, is the use of hydraulic systems to make work easier justified when compared to the potential environmental pollution?
- How many different uses of oil can you think of? Could you survive without them?

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History

May 11 - May 15

Creating Canada, 1850 -1890 – Big Idea:

Not all people in Canada enjoyed the same rights and privileges in the new nation.

Option 1

Read the following article:

thecanadianencyclopedia.ca/en/article/confederation

Task:

- What order of importance would you assign to the various factors that led to Confederation?
- What criteria would you use to determine the ranking of these factors?

Option 2

The late 1800's was a time of major economic and political changes in Canada.

Facing increasing agriculture settlements in the West, the Metis and First Nations of what is now Saskatchewan and Alberta were experiencing many changes that were impacting their quality of life.

What changes were they facing and what actions did they take in hopes that the Government of Canada would address their grievances?

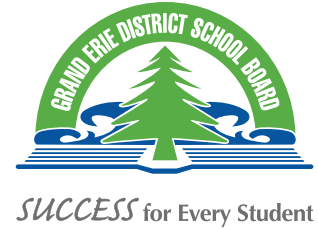
Read the following article to support the inquiry:

www.thecanadianencyclopedia.ca/en/article/north-west-rebellion

Task:

- In a poem, story, or essay, recount this time in Canada's history. What message do you believe it is important to share in your writing?

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History

May 11 - May 15

Creating Canada, 1850 -1890 – Big Idea:

Not all people in Canada enjoyed the same rights and privileges in the new nation.

Option 3

Read the following:

www.thecanadianencyclopedia.ca/en/article/emily-stowe

Consider:

1. Why did Emily Stowe attend medical school in 1865 in the United States and not Canada?
2. What do her actions tell you about limitations on women's rights in Canada during this period? What impact did these limitations have on women?

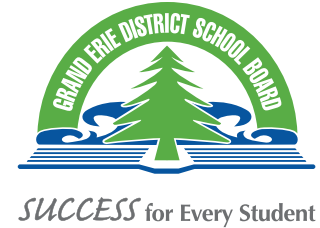
Task:

- Write an editorial to a newspaper as if it were 1870 sharing Emily Stowe's story and your opinion about the state of women's rights in Canada. What do you think is important for people to know and think about? What questions would you have for your local, provincial and federal government concerning the rights of women?

Prompts for discussion:

- Did all Canadians have the same reaction to the creation of the Dominion of Canada and its expansion from coast to coast?
- Is historical change always positive? How do we determine the nature of its impact?

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Geography

May 11 - May 15

Global Settlement – Big Idea:

We need to develop sustainable communities that function within the limits of our physical environment.

Option 1

If you could establish a settlement anywhere in the world, where would it be?

Task:

- Develop criteria for how you would select the location.
- Rank order your criteria from most to least important. Explain your reasoning.

Option 2

Human settlement does not occur without challenges to the natural environment. One issue is the loss of habitats due to expanding residential and commercial settlement.

Watch the following video and read the accompanying fact sheet to learn about how the town of Oakville is adjusting to co-existing with wildlife:

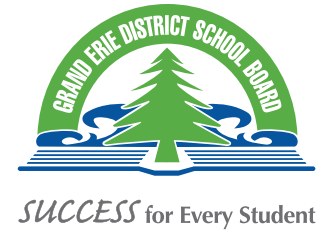
www.youtube.com/watch?v=V0CS4_-sQDE&feature=youtu.be
www.oakville.ca/assets/general%20-%20environment/CoyoteFactSheet.pdf

Task:

- Find an example - other than the one used above - of another community's attempts to adjust to co-existing with wildlife.
- Investigate:
 - Where is the community located?
 - What is the issue?
 - How has the community attempted to deal with it?
 - What have been the results?
- Create a presentation to communicate the results of your investigation.

NOTE: Consider which presentation form is best suited to an audience made up of your peers. How might you use photos or charts in your presentation?

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Geography

May 11 - May 15

Option 3

Human settlements are not immune to change or danger.

One threat to human settlements along coastal areas are rising sea levels.

Read the following article:

www.worldbank.org/en/news/feature/2013/08/19/coastal-cities-at-highest-risk-floods

Watch the following videos:

■ **NASA: Rising sea levels more dangerous than thought**

www.youtube.com/watch?v=iSkwYYlkfS4&feature=youtu.be

■ **What if All the Ice Melted on Earth? ft. Bill Nye**

www.youtube.com/watch?v=b6CPsGanO_U&feature=youtu.be

■ **Canadian Case Study: Lennox Island**

www.youtube.com/watch?v=l0bKxgyEvTc&feature=youtu.be

Task – choose one:

- write an editorial outlining the impacts of rising sea levels
- write a newspaper article for the local or school paper on the impact of rising sea levels
- an oral presentation to highlight and explain the impacts of rising sea levels
- create a photo essay on rising sea levels in a specific region
- write a report, song, or poem that addresses the impact of rising sea levels in a specific region
- write a play about the impact of rising sea levels in a specific region

Prompts for discussion:

- What makes a community sustainable?
- Why is it important that communities be sustainable?
- What can happen if a community is not sustainable?