

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 4

A picture is worth a thousand words. Think about picture books and remember that picture books not only for younger readers. Who tells the story better? The author or the illustrator? Think about arguments/reasons for both sides. Perhaps this could be a friendly debate topic. As your family members their opinion.

Tuesday, May 5

But why??? Think of 10 questions that begin with the word WHY? Write them down. Now, answer 5 of those questions through research (or use your own ideas for the answers!)

Wednesday, May 6

In detail, describe an accomplishment that you are most proud of. Be sure to use imagery to describe the mood and experience to your reader.

Thursday, May 7

Complete the 6 likes and 6 tags challenge, citing 6 things that you are grateful for. Then, tag 6 people to pass it on and keep it going. #grateful

Friday, May 8

Write a letter to yourself and date it for years from now (you decide 5 years from now 10 years?) Write about what you are experiencing during the school closure. Why do you think it is worthwhile to write a letter to yourself dated for the future?





Date

Activity

Monday, May 4

Explain why a square with an area of 20cm2 does not have a wholenumber side length. Use a picture as part of your explanation.

Tuesday, May 5

Why do we use units squared when writing an area measurement and units cubed when writing a volume measurement? For example, the area of the floor is $20~\text{m}^2$, the volume of the box is $36~\text{cm}^3$.

Choose something to measure the area of. Choose a cylinder in your house to measure. Determine the measurements of the items and record how you calculated those measurements.

Wednesday, May 6

Visit Nrich Maths at: nrich.maths.org/famous-mathematicians.

Click on Pythagoras and discover what he believed about numbers that might seem strange to us today. What shape was he very interested in and what ideas did he explore about that shape?

Thursday, May 7

Construct the graph that represents the pattern 1,3,5,7,..., find the 10th term. Given the algebraic equation that represents the pattern, t=2n-1, find the 100th term. Explain how equation, t=2n-1 represents the numerical pattern 1,3,5,7...

Friday, May 1

Rob and Arham were asked to determine the measure of central tendency for the numbers of goals scored by their hockey team.

45231556667

Rob worked with the first five values of the set of data. Arham worked with all the values. a) Find the mean, median and mode for Rob and Arham's data sets. b) What is wrong with Rob's sample?

Numeracy Calendar



Sources:

Big Ideas from Dr. Small; Marion Small, 2009

Open Questions for the Three-Part Lesson: Gr. 4-8, M. Small, 2016

Teaching Student-Centered Mathematics, Pre-K to 2, J. VanDeWalle, 2014

Making Math Meaningful to Canadian Students, K-8, M. Small, 2013

schools.wrdsb.ca/athome/learn/elementary-home/elementary-2/math/math-grades-1-3/how-much-how-many/

A Guide to Effective Instruction in Mathematics, Grades 1-3, Number Sense and Numeration 2016

A Guide to Effective Instruction in Mathematics, Kindergarten to Grade 3, Measurement 2007

schools.wrdsb.ca/athome/learn/elementary-2/math/math-grades-1-3/patterns-patterns-everywhere/

schools.wrdsb.ca/athome/learn/elementary-2/math/math-grades-1-3/math-is-beautiful/

www.youcubed.org/resources/whats-going-on-outside-your-window-k-12-video/

mathclips.ca/swfPlayer.html?swfURL=tools/Notepad1.swf&title=Notepad

mathies.ca/files/representationCards/Beads_0_to_50_AODA.pdf

www.mathies.ca/tools/NumberChart/index.html?show=true&title=Number%20Chart

Tap Into Teen Minds: tapintoteenminds.com/3act-math/penny-a-day/, Kyle Pearce and Jon Orr

Science



May 4 - May 8

Big Idea

Fluids are an important component of many systems.

Option 1

Different fluids have different densities (how closely packed molecules are in a material). Hopefully you will have the following items in your home. Before starting this experiment think about the following fluids Water, Honey, and Olive Oil. Rank them in order from least dense to most dense and write a sentence why you think this. Experiment: Pour a glass half full of water. Add some honey slowly. The denser fluid will sink to the bottom. Let the mixture sit until settled. Now add the olive oil. Where did it settle? Allow to settle again and draw and label what happened in your cup. Were you correct with your initial hypothesis?

Option 2

Look at the shower head in your bathroom and try to find the flow rate. It will be a number followed by G (gallons) or L (litres) followed by /M (minutes) or S (seconds). If you have more than one shower compare the two shower heads to see which one has a greater flow rate. Why do you think this is? To test this and create your own data, using a 2L pop bottle open a tap in your house and time how long it takes to fill the bottle. The flow rate is the volume of the bottle (2L) divided by the amount of time it took to fill it up which will give you a L/s flow rate.

Option 3

Viscosity - Viscosity relates to how thick or thin fluids are. Dense fluids are thick and are said to be highly viscous, while thin fluids are said to have a low viscosity. Using three glasses and a marble or a stone we will demonstrate the different viscosities. Leave one glass empty, fill one with water and the other with honey or syrup. Drop the stone into each glass and observe how long it takes to reach the bottom.

Science



May 4 - May 8

Big Idea

Fluids are an important component of many systems.

Students must have the appropriate supervision for safety when completing these science tasks. Adult participation is required for safety when completing some of the science tasks. If you have any concerns with completing these science tasks, please don't attempt them.

Prompts for discussion:

- After observing how oil and water interact, can you design a machine or way to clean oil from the water? Relate this to environmental disasters such as oil spills in the ocean or lakes. How can we prevent these from happening?
- Are there fewer types of fluids used in electric cars vs. Fossil fuel powered vehicles? Are the types of fluids used the same or different? In your opinion which vehicle has fewer environmental impacts?
- How do you think density/viscosity affect the flow rate? Can you think of examples of when a slow flow rate would be beneficial?

History



May 4 - May 8

Big Idea

People in Canada had different reactions to the creation and expansion of the country.

Option 1

Click on the link below and read the section titled "The Confederation Idea":

school.eb.com/levels/middle/article/Canada/273474#198151.toc

- 1) What was the reaction of different groups to the prospect of Confederation?
- 2) Were all voices being heard from all perspectives regarding the prospect of confederation? Do you think this played a role in the decisions that were made?
- 3) What is the importance of confederation for Canadians today? How has Confederation impacted how we live as Canadians? Consider what Canada would look like if Newfoundland or British Columbia did not join Confederation?

Option 2

Complete a historical inquiry on The Canadian Pacific Railway.

- 1) Use the following questions to guide your inquiry.
- What were the perspectives of different groups on the building of the Canadian Pacific Railway? Did they all agree?
- Why did these differences exist?
- What can you learn from looking at this event from different perspectives?
- 2) Complete your research and record your information on a graphic organizer of your choice.
- What type of graphic organizer might help you sort the different perspectives represented in the information you have gathered?
- 3) Communicate your results in the format of your choice. Consider formats such as a story, graphic novel (comic), script etc.
- What format will help you to communicate your ideas to your intended audience?
- Are there visual elements you could use to stimulate your audience's interest?

History



May 4 - May 8

Big Idea

People in Canada had different reactions to the creation and expansion of the country.

Option 3

You and your family have just moved into a new home. The house was built in 1851. During renovations your family discovered an old wooden box that contains journals, poetry and songs written about the creation of the dominion of Canada and its expansion. You are excited to explore the contents of the box as you know this was a pivotal time in history and one that had a great impact in the creation of Canada as you know it today.

Describe in a diary entry the following:

- What type of information you have found in these sources?
- Whose perspectives do these sources reveal? What can you learn from these sources?
- How does the information these sources contain impact your life today?

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?





May 4 - May 8

Big Idea

Human settlement can cause social, environmental, and economic problems.

Option 1

Watch the following video:

www.youtube.com/watchv=fKnAJCSGSdk&feature=youtu.be

- Explain why population settlements have changed over time?
- Where will most of the population growth occur in the coming years?
- How will cities need to change to accommodate this growth?

Option 2

Why do people live where they live? Each family makes this
personal decision based on their own needs and experiences.
Research the following settlement factors and use the following
table to explain how each factor impacts human settlement.

- Environmental
 A
- Agriculture
- Historical
- Water

- Natural Disasters Economic
- Natural Disasters

Complete the following table:

Settlement Factor	How it impacts Human Settlement?





May 4 - May 8

Big Idea

Human settlement can cause social, environmental, and economic problems.

Option 3

The physical environment can influence where we place towns.

The placement of towns can in turn create conflicts and land use issues. A land use issue is a conflict, usually between different groups, over how to use a piece of land. For example, following Confederation the discovery of gold in northern BC and the Yukon led to boom towns being created for prospectors, which in turn forced out current residents like the First Nations. When the gold depleted, the boom towns became ghost towns.

Can you think of an example - other than the one used above - of a land use issue or conflict in current or past events?

Communicate your thinking. Consider the following formats:

- write a play about the impact of a land-use conflict in a specific region.
- create a website that focuses on issues associated with a landuse conflict in a specific region.
- create a photo essay on a land-use conflict in a specific region.
- write a report, song, or poem that addresses the impact of a land-use conflict in a specific region.

Prompts for discussion:

- In what ways can the environment affect human settlement?
- In what ways can human settlement affect the environment?
- Why might this environmental impact have social, political, or economic consequences?