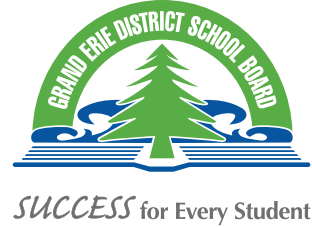


Grade 8



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, April 27	Find a “User’s Manual” in your house and read it. Summarize the important key ideas on a piece of paper the size of a cue card – using point form, or graphic text.
Tuesday, April 28	Assume this situation occurred 10 years ago after having a conversation with an adult about that time. Write a journal from the perspective of a student from 2010 going through this experience. Extension: How do you think this would be handled 10 years from now? Write a journal for one day from that perspective.
Wednesday, April 29	How do you think they get the peanut butter in a Reese Peanut butter cup? Be creative and make a commercial explaining the process.
Thursday, April 30	Brainstorm a list of 5 books that were turned into movies. Which movie was the best adaptation from the book, in your opinion? What made it a good depiction?
Friday, May 1	Mistakenly, you find yourself locked in a famous structure/park overnight (think the Eiffel Tower, Disney World or even Walmart). You are now completing the 24-hour challenge! What would you do if you were alone in the place that you chose?

Grade 8



SUCCESS for Every Student

Numeracy Calendar

Date

Activity

**Monday,
April 27**

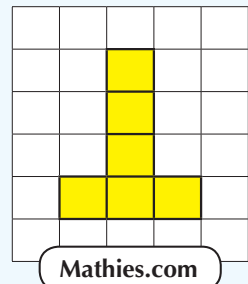
You need a strip of paper for this activity. A piece of paper approximately 24 cm X 4 cm would be a good size. Without using a ruler, divide the strip into fourths. Now divide the strip into twelfths. What is your strategy to make sure each fraction piece is equal? Now that you have twelfths, what other fractional amounts would it be easy to divide the strip of paper into? Take a new strip of paper and divide into equally into sevenths? What is challenging about this task?

**Tuesday,
April 28**

Use a string to measure the circumferences and the diameters of a variety of cylindrical cans (at least 5) and investigate the ratio of the circumference to the diameter. What do you notice?

**Wednesday,
April 29**

A pentomino is a shape made by joining five squares together side-to-side. There are only so many different shapes you can make by joining 5 squares side to side. Shapes that are translations (flips or turns) of other shapes are not different. Cut out 5 equivalent squares. Join the 5 squares to make a new shape. Record what each new shape looks like. How many different Pentomino shapes can you make? Here is one of the shapes to get you started.



**Thursday,
April 30**

True or false: The following equations all mean the same thing. a) $3v - 4 = 20$ b) $-4 + 3v = 20$ c) $20 = 3v - 4$. Prove this is true by graphing the equations.

Grade 8



SUCCESS for Every Student

Numeracy Calendar

Date

Activity

**Friday,
May 1**

Design a game where, in each turn, the player must perform two tasks involving fair chance (e.g., rolling a number cube, spinning a spinner, flipping a coin, etc.). Depending on the resulting combination, a player must do a certain activity. Make a tree diagram to show all the possible combinations. Play the game with your family or a friend online.

Sources:

Open Questions for the Three-Part Lesson. Geometry and Spatial Sense, Data Management and Probability. Grades 4-8, M. Small

Solve Me Mobiles; solveme.edc.org/mobiles/

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

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

<https://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/

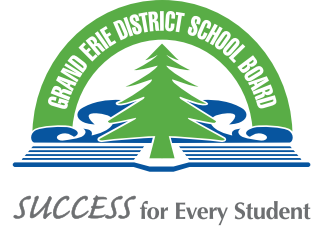
mathclips.ca/swfPlayer.html?swfURL=tools/Notepad1.swf&title=Notepad

mathies.ca/files/representationCards/Beads_0_to_50_AODA.pdf

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

Grade 8

Science



April 27 - May 1

Big Idea

Demonstrate an understanding of the basic structure and function of plant and animal cells and cell processes.

Option 1

school.eb.com/levels/elementary/article/microscope/353462

Using this link make a drawing of a microscope and label its elements. What do you think the purpose of each is? Can you improve it?

Option 2

While cells are small, there are smaller organelles within that help a cell function. What do you think is the most important cell organelle and why? What cell organelle are you?

Using your materials in your home, design a plant and animal cell. (eg. Drawing, model, computer generated image). Label the different parts of each and how they interact with each other to maintain a healthy cell.

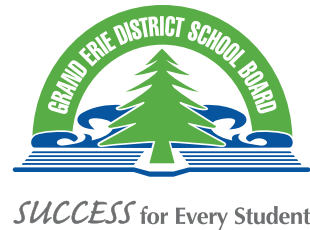
Option 3

Plants use photosynthesis to make energy, would this be beneficial to animals as well? If you could splice an animal and plant cell together to create a super cell what would it look like?

Questions to prompt discussion:

- Why is it important to look at cells? How does it affect your life?
- During these times how can understanding how cells interact help humans?
- What are the most important cells in your body in your opinion?

Grade 8



History

April 27 - May 1

Big Idea

This was an era of major political and economic change, which affected various groups in Canada in different ways.

Option 1

History involves the study of diverse individuals, groups, and institutions as well as significant events, developments, and issues in the past. Using the historical inquiry process we can examine the past by gathering information from primary and secondary sources.

Create a comparison chart or visual organizer of your choice to explain the similarities and differences between primary and secondary sources. Provide examples to clearly communicate your understanding.

Option 2

Read the following article:

school.eb.com/levels/middle/article/Hudsons-Bay-Company/274969

List the factors that contributed to the development of the Hudson Bay Company.

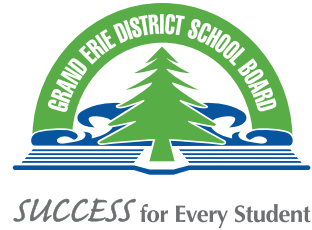
Using an organizer of your choice compare the Hudson's Bay company of this time to the present-day Hudson's Bay company.

Option 3

Great change happened in Canada between 1850-1890 that affected various groups both positively and negatively. Choose a group from this time period and describe the change they experienced and its impact.

Create a one-page visual (e.g. comic or poster) describing a change that has happened in your life that has had both positive and negative effects.

Grade 8



History

April 27 - May 1

Big Idea

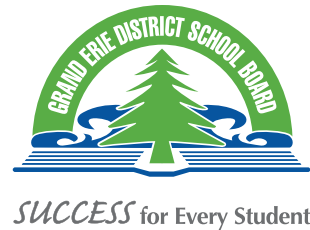
This was an era of major political and economic change, which affected various groups in Canada in different ways.

Questions to prompt discussion:

- Is historical change always positive?
- How do we determine the nature of its impact?
- How can negative events impact us positively?

Grade 8

Geography



April 27 - May 1

Big Idea

Human settlement patterns are affected by the natural environment and also affect the natural environment.

Option 1

Land Use

Land can be used for agriculture, industry, housing, transportation, recreation, green spaces, etc.

- Identify two examples of each kind of land use.
- In Ontario, what type of land use should be given priority: agriculture, recreation, conservation, or residential usage? Explain why you feel this way.

Option 2

Land Reclamation

Land reclamation creates new land in large bodies of water (oceans, rivers, or lakes). This is done by filling a section of the water body with rock or cement then adding clay or dirt on the top to match the heights of the new and old land areas.

- Read the article on Kobe, Japan
- Explain why Kobe, Japan created new islands for settlement?
- Complete the Land Reclamation t-chart.
- In your opinion, do you feel that the positive impacts in land reclamation outweigh the negative impacts? Explain.

japanpropertycentral.com/real-estate-faq/reclaimed-land-in-japan/

Positive Things About This Land Reclamation Project

Negative Things About This Land Reclamation Project

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Grade 8



SUCCESS for Every Student

Geography

April 27 - May 1

Big Idea

Human settlement patterns are affected by the natural environment and also affect the natural environment.

Option 3

Population Density

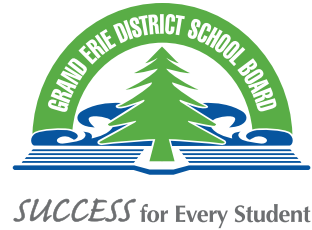
- What are three natural factors and three human factors that affect population density?
- Calculate the population density for each country in the chart
- Identify the population density for each country as sparse, moderate, or dense.

Country	Population	Area KM ²	Population Density (Rounded to whole number)	Sparse Moderate Dense
China	1,336,718,015	9,597,000		
India	1,189,172,906	3,287,000		
United States	313,232,044	9,834,000		
Canada	34,030,589	9,834,000		
Finland	5,259,250	338,424		
Monaco	30,539	202		
South Korea	48,754,657	100,210		
Australia	21,766,711	7,692,000		
Singapore	4,740,737	7,191		
South Africa	49,004,031	1,220,000		
Sweden	9,088,728	447,435		

Reference:

www.infoplease.com/world/population-statistics/area-and-population-countries

Grade 8



Geography

April 27 - May 1

Big Idea

Human settlement patterns are affected by the natural environment and also affect the natural environment.

Questions to prompt discussion:

- In what ways can the environment affect human settlement?
- In what ways can human settlement affect the environment?