## Grade 8

## Ifieracy Galenidar

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

## Monday, June 8

## Tuestay, June 9

## Wednesiay, June 10

## Thursday, June 11

## Friday, <br> June 12

## Antivity

If the month of June were a person, what would he or she look like? What would he or she act like? Describe this "person" in detail as you personify June.

If you ran your own small country, what would be your two top rules to live by? Why would you prioritize these as your top two?

If you had the chance to publish a book, what would you write about and why? Who would the main characters be? What would be your title?

An "allusion" is a casual reference to a famous historical or literary figure or event. These are often referenced in novels and in pop culture - especially in music. For example, "That you were Romeo, you were throwing pebbles", in Taylor Swift's Love Story song. This week, your task is to find two allusions in a novel or in song lyrics, and explain the meaning of each!

Categories! Using only verbs. Write down anything and everything that comes to mind that you associate with social media.

## Grade 8

## Flumeracy Calenidar



## Date

## Monday, June 8

Tuesilay, June 9

## Wednesilay, June 10

## Thursulay, June 11

## Ictivity

Order the following quantities on a number line: $0,4 / 8,-2,1,1 / 2$, $2.5,9.8,-4$. Consider, what it the largest quantity on the number line? What is the smallest?

A solid metal cone has radius $\mathbf{6 ~ c m}$ and height 20 cm . It is melted down to make spheres of diameter 6 cm .

How many spheres can be made?
https://nrich.maths.org/12837


Which of the following regular shape tessellates so that there are no gaps in the pattern?


## Math Challenge

Given the following information, how much does each animal
 weigh?

Images from Bing's Creative Commons



## Numeracy Calentar

## Date

## Friday,

June 12

## Aetivity

You are going to try out for the long jump team, for which you need an average jump of 3.9 metres. The coach says she will look at your best jump each day of the week and average them out. These are the five jumps you recorded that week:
Monday - 3.9 m
Tuesday - 3.9m
Wednesday - 4.0m
Thursday - 4.1 m
Friday - 3.3m.
Unfortunately, Friday's was a low score because you weren't feeling that well! How could you work out an average that you think would fairly represent your jumping? Work out some averages in different ways and see which you think is most fair, then give an argument for why you think it is fairest. Explain your method.

## Sources:

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

- Grades 4-8

Small, Marian. Open Questions for the Three-Part Lesson - Measurement, Patterning \& Algebra - Grades 4-8
Van de Walle, Teaching Student-Centered Mathematics, 2nd Edition, Grades 6-8, p. 316
Mathematical Mindsets, Jo Boaler, 2016
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www.mathies.ca - pattern block tool, colour tile tool, number line tool
https://support.mathies.ca/en/mainSpace/RepresentationCardGames.php
https://assets.pearsonschool.com/asset_mgr/current/201340/0132046008_fsim_geometry.pdf p. 78
Van de Walle, J., Lovin, L., Karp, K., Bay-Williams, J. (2014). Teaching Student-Centered Mathematics, Developmentally Appropriate Instruction for Grades Pre-k-2, p. 238 and 328.
https://www.publicdomainpictures.net/en/view-image.php?image=245286\&picture=giraffe-illustration-clipart https://assets.pearsonschool.com/asset_mgr/current/201340/013221279X_fsim_data.pdf p. 45
https://oame.on.ca/eduproject/ontariomathedresources/files/Patterning\ and\ Algebra\ K-3.pdf p. 73
Which One Doesn't Belong: https://wodb.ca/

## Grade 8

## JIne 8 - June 12

Big Idea - Understanding Earth and Space Systems
Demonstrate an understanding of the characteristics of the Earth's water systems and the influence of water systems on a specific region.

## Option 1

> Plastics are a major type of pollutant found in our water systems particularly the Oceans. Read the following article on the Great Pacific Garbage Patch
> https://school.eb.com/levels/middle/article/Great-PacificGarbage-Patch/ $\mathbf{6 3 1 8 1 4}$
> Using this information create a brochure which describes the various ways plastics can end up in the ocean and how it affects marine life and the people who rely on the oceans for survival. Include a section in your brochure that identifies the need to recycle and proper disposal of plastics to prevent them from polluting our environment.

## Option 2

Water on Earth can be found in all three states of matter, Liquid in rivers, lakes oceans and ground water, solid in Glaciers and Icebergs, and as a Gas in the atmosphere. When saltwater freezes the salinity (salt content) decreases so glaciers and ice bergs are sources of fresh water for human beings.
With increasing global temperatures, the amount of water found in glaciers and ice bergs is slowly decreasing. To see the possible effects of this melting follow the instructions below.

- Using a container such as a pie tin or deep pan, place it in the sink or bathtub or somewhere where if water overflows the sides it won't harm anything in your house.
$\square$ Fill the bottom of the pan with ice so that it covers the bottom.
- Slowly add water until it is about to overflow the sides.
- Using a chart record the time and make observations every 10 minutes. What do you see, why do you think this is happening?
- How long did it take to overflow the container?


## June 8 - June 12

## Option 2 Continued...

## Option 3

Imagine now that surrounding the container are human cities and houses, what would happen to those people?

Who owns the water? Farmers rely on irrigation to ensure that their crops have enough water during times with a lack of rain or drought. Much of this water comes from ponds and ground water aquifers. During summer months and periods of drought this can lower the level of water in these systems as people use the water for various reasons such as washing the car or watering the lawn. Should farmers have priority during these times? Should people be allowed to water their lawns? If the ground water is a source of water for a community how can we create a set of rules to ensure equal access to it? There are two types of bottled water. Purified - (Tap Water) which comes from municipal water sources such as underground aquifers, and Spring - which comes from natural springs across the country. The following link will show you various sources of bottled water in the United States and whether they are Purified or Spring.

## Where Your Water Comes From: <br> https://youtu.be/ij5A-BwDugg

Companies pay to extract and bottle this water and sell it to consumers. Fill in the chart below with your thoughts on the pros and cons of each.

| Purified | Spring |  |  |
| :--- | :--- | :--- | :--- |
| Pro | Con <br> $\square$ Transportable <br> $\square$ <br> Publicly <br> Owned | Pro <br> $\square$ Clean | Con <br> $\square$ Possible <br> source of <br> pollution |

## Grade 8

## June 8 - June 12

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.

## Promple for discission:

Create a food chain explaining how microplastics can end up being consumed by humans. What effects do you think this has on animals and humans?

- If all the ice on Earth melted, how would the world change? Redraw a map of a region of your choosing with a coastline showing what you think it would look like.
- If a water bottling plant is built beside a farm which no longer has enough ground water to irrigate due to excessive removal of water from an aquifer, what are some possible solutions? Who is responsible to solve the problem?


## History

## June 8 - June 12

Big Idea - Canada, 1890-1914: A Changing Society
The struggles of individuals and groups in Canada at this time laid the groundwork for some of the rights we have today.

## Option 1

A compare and contrast chart is an organizer that help explain the similarities and differences between two concepts.

1) Choose one of the topics below and create a compare and contrast chart in the format of your choice.
In what ways is the life of a new immigrant to Canada today different from that of an immigrant around 1900? In what ways is it the same? What accounts for some of the differences? OR In what ways are the experiences of present-day farmers on the Prairies different from those of farmers at the beginning of the twentieth century? In what ways are they similar?
2) Share your findings with a peer, sibling, parent/guardian etc. either in-person or virtually. Explain to them the similarities and differences you found and what new learning you gained from this assignment.
3) Choose the perspective of an immigrant to Canada or a farmer in past or present day and write a brief journal entry describing a day in their life at that time.

Go to the following website:
Where are the Children? http://wherearethechildren.ca/en/
Answer the following questions:

1) What were residential schools? When did residential schools operate in Canada?
2) Investigate the short- and long-term impact that residential schools had on First Nations/Métis children and their families by using the chart on the following page.
3) What actions do you think have to be taken to make amends? In this context, how is an apology different from reconciliation?"

## History

SUCCESS for Every Student

## June 8-June 12

## Option 2 Continued...

| Residential Schools |  |
| :---: | :---: |
| Short-Term Impact | Long-Term Impact |
|  |  |
|  |  |
|  |  |

In History, we analyse the actions of various individuals, groups, and/or communities from the past and compare these actions to those taken by similar groups today.

1) TASK:

Choose a topic from the list below that you are interested in learning more about. Complete an inquiry on your chosen topic using primary and secondary resources.
Complete your research and record your information on a graphic organizer of your choice. Use the questions to guide your research.
What type of graphic organizer might help you sort the information you have gathered?

Communicate your results in the format of your choice. Consider writing a speech, creating a media presentation, creating a piece of artwork, writing and Illustrating a comic/graphic novel or a format of your own choice.
Which presentation format is best suited to an audience made up of your peers? Are there visual elements you could use to stimulate your audience's interest?

## 2) TOPICS:

## Unions

Why did some workers in this period join unions?
What did the unions advocate?

## June 8 - June 12

## Option 3 Continued...

What are some similarities and differences in the concerns of unions in the past and in present-day Canada?
OR

## Women's Rights

What were the major concerns of women's rights groups at the turn of the century?
Which women did women's rights groups at this time represent?
Who was included and who was excluded?
How did the groups address their concerns?
Are any of these concerns still relevant to women's groups today? OR

## First Nations/ Métis

What actions did Onondeyoh (Frederick Ogilvie Loft) take to improve the lives of First Nation/ Métis in Ontario?
What comparisons can you draw between Loft's actions and those of Indigenous activists today?

## Prompts for discussion:

In what ways are Canadian rights and freedoms a result of the struggles of people in the past?
What are some ways in which different people have responded to challenges and created change?
What role has diversity played in the development of Canada?
What has been the lasting impact of the Indian Act and the residential school system?

## Grade 8

## June 8 - June 12

Big Idea - Global Inequalities: Economic Development and Quality of Life
Quality of life and economic development around the world are influenced by various factors.

## Option 1

## Various programs and policies are aimed at improving quality of life in various countries.

1. Choose an organization from the list below.
2. Investigate the organization ( $5 \mathrm{~W} \& \mathrm{H}$ ).
3. Consider the following:

- What is the purpose of the organization?
- What are some key projects that they work on?
- What areas of the world do they service?
- How does the organization helped to improve the quality of life for people?
- Are there any shortcomings to their programs?

4. Communicate the results of your investigation. Consider the following:

- media presentation of your choice
- an infographic
- an editorial for your local newspaper

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?

- UNICEF
- Water for People
- Save the Children
- Right to Play
- Doctors Without Borders
- WE Charity
- International Planned Parenthood Federation


## Grade 8 <br> Geogranhy

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## JIne 8 - June 12

Big Idea - Global Inequalities: Economic Development and Quality of Life
Quality of life and economic development around the world are influenced by various factors.

## Option 2

## Option 3

## Grade 8

SUCCESS for Every Student

## June 8 - June 12

## Option 3 Continued...

## Task:

1. Choose a quality of life issue that you think needs attention.
2. Research:

- What is the issue?
- What problems does it cause?
- Who does it affect?
- Where is it happening?
- How can it be solved?

3. In your opinion, would celebrity endorsement benefit the people impacted by this issue? Explain.
4. Communicate your thinking. Consider the following:

- a media presentation of your choice
- an infographic
- an editorial for your local newspaper

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?

## Prompits for discussion:

- What factors influence the quality of life in different countries?
$\square$ Why is it important to be aware of and to address global inequalities of wealth and in quality of life?
How do we measure the development of a country or a community? Are there any biases in these measurements?

