Friendly - Accountable - Leaders - Cooperative - Organized - Nurturing - Successful

Learning Opportunities for Grade 8 May 4th – 8th, 2020

Do your best to work on these learning opportunities for 2 hours each day. Focus on life skills, physical activity, mental well-being, and social connections as well. Stay healthy, stay safe!

This week, you will have a chance to come into the school to get your belongings, so please look for some things that you need to return to the school such as library or classroom books. You just might have an extra book to read, or some extra notebooks to use, that were hanging out in your locker! Check out the website or Facebook for Mrs. MacDougald's learning tip of the week – keeping all of your materials organized.

EVERY DAY:
30 minutes of reading
30 minutes of physical activity (See the Physical Activity Calendar for ideas!)

ELA/FILA

Twilight Comes Twice
Link to "Twilight Comes Twice" by Ralph Fletcher, read on YouTube:
https://www.youtube.com/watch?v=QO61nJWWp2I

Choose one, or all of the lines below, selected from the book and draw an image of what the line means.

1. Twice each day a crack opens between night and day. Twice twilight slips through that crack.

2. Fireflies appear, swimming through the air, writing bright messages in secret code.

3. Slowly dusk pours the syrup of darkness into the forest.

Extension activity: Using the same first words Ralph Fletcher uses for his sentences in Twilight Comes Twice, write a new story.

Garden Idioms

Common Garden Idioms

Apple of my eye	Nip it in the bud	Make a mountain of a molehill
Garden variety	Salad days	Turn over a new leaf
Lead you down the garden path	Seed money	To mend fences
Life is a bowl of cherries	Go to seed	A bee in your bonnet
Let grass grow under your feet	Shake like a leaf	Make a beeline
Small potatoes	Put down roots	Dig deep
The grass is always greener	Reap what you sow	Catch more bees with honey than with vinegar
Kick the bucket	A tough row to hoe	Make hay while the sun shines

1. Do some research (on the web or by asking an adult, or both) to find out what these idioms mean.
2. Choose one. Write a narrative that incorporates 3 or more of these idioms, **or** illustrate 3 or more of these idioms, **or** research the origin of 3 or more of these idioms, **or** create a cartoon that uses 3 or more of these idioms.

Garden Haiku
The haiku is a Japanese verse in three lines. Line one has 5 syllables, line two has 7 syllables and line three has 5 syllables. The 17 syllables are a compressed form which is a piece in praise of nature. Many original books of haiku verse in Japanese are illustrated gracefully in pen and ink sketches which capture the essence of a simple moment in nature. Haiku is a mood piece in which there is no rhyme.

Examples:

Old crow in command Always foraging for food On his daily route	A color riot Lilac bush bursts into bloom A splash of flowers	Ink black night cover A wrapper of soft silence Our way lit with stars	Water slaps the shore Against the white crystal sand Under a hot sun

Try to **write your own haiku**, with a garden theme.

Line 1 (5 syllables)

Line 2 (7 syllables)

Line 3 (5 syllables)

ENGLISH READING:

Article: *Urban Students Grow Food at Los Angeles School Garden*

While reading the text, use the annotation bookmark (below) to mark up the text using symbols that guide your thinking and understanding of the text. You should read the text at least twice.

https://www.tweentribune.com/article/tween78/urban-students-grow-food-los-angeles-school-garden/

Critical Thinking Text Response

Explain how a school garden would benefit you, your school, and your community.

_____
_____
_____
_____

Explain how this program helps build a demand for healthy foods.

_____
_____
_____
_____

Quick Read

Article: *Great Pumpkins! Grower Wins Trifecta of Giant Food Titles*

While reading the text, use the annotation bookmark (below) to mark up the text using symbols that guide your thinking and understanding of the text. You should read the text at least twice.

https://www.tweentribune.com/article/junior/great-pumpkins-grower-wins-trifecta-giant-food-titles/

Critical Thinking Text Response

Explain what you think motivates people to grow the biggest fruit or vegetable.

_____
_____
_____
_____

Close Read Marks
Let's take a closer look.

Take note and notice what you are reading.

Symbol	Meaning
☆	important
___	key word
✓	I understand
◯	unfamiliar word
?	I don't understand
!	I'm surpised
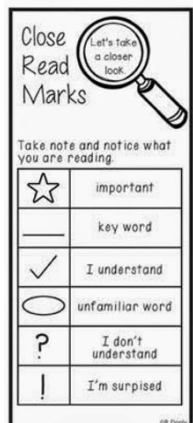
FRENCH READING

Article: *Cette Famille attaint l'autosuffisance allimentaire*

Please read the French article and answer the questions below, thoroughly. Access the article at: https://ici.radio-canada.ca/nouvelle/1021611/famille-autosuffisance-alimentaire-bathurst-agriculture-ferme-fruit-legume-autonomie

You can also watch and listen to the same story at: https://ici.radio-canada.ca/tele/la-semaine-verte/2016-2017/segments/reportage/18017/autosuffisant-nouveau-brunswick-agriculture

Questions sur le texte:

1. Explique, dans tes propres mots, ce qu'est l'autosuffisance alimentaire.

2. Comment Robin et Rebecca récoltent-ils des légumes tout au long de l'année, même en hiver?

3. D'après toi, pourquoi les gens désirent-ils de plus en plus d'être autosuffisant? Explique ta réponse en deux paragraphes.

Extension Activity:

Fait une courte recherche sur internet et explique comment l'autosuffisance alimentaire et l'achat local des aliments peut améliorer l'environnement et l'économie

Optional Outdoor & Gardening Activities

Math

Mental Math Activities

Do <u>two</u> of these questions a day! Remember- <u>in your head</u>, not with a calculator. Explain your strategy and show your work as if you are trying to explain what you are thinking in your head.

Grade 8 Distributive Property	$6\frac{1}{4} \times 8$ (think of $6\frac{1}{4}$ as 6 and $\frac{1}{4}$) so 6 x 8 = 48 and $\frac{1}{4}$ x 8 = 2): 48 + 2 =			
1) $7\frac{1}{5}$ x 10	3) $2\frac{1}{6}$ x 12	5) $3\frac{2}{5}$ x 10	7) $12\frac{5}{6}$ x 12	9) $2\frac{1}{3}$ x 5
2) $4\frac{1}{3}$ x 9	4) $5\frac{1}{4}$ x 8	6) $7\frac{2}{3}$ x 6	8) $3\frac{3}{4}$ x 12	10) $6\frac{1}{7}$ x 9

Hey Falcons! Get Outside for Math

Take a walk outside and time yourself with a stopwatch. After, have your parents measure the distance in a vehicle. Calculate your speed. Try it a few times this week and in the weeks to come and see if your speed is improving. Bonus points for getting your family to join you!

Get your Green Thumbs Working; Design a Garden!

Design a garden given one or two specific measurements (i.e., with an area of 36 square meters, or 48) and have them figure out the largest and smallest space it could fit in (perimeter wise). They could also use the flyers to determine cost of fencing to put around, you could give them a measurement of how deep the soil should be and they could calculate volume of soil.

Grade 8 Supplementary Math Activities, Theme: Integers

➤ To start off, below you will find some great videos to help you review topics related to integers!

<u>Adding and subtracting</u> positive and negative numbers: https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-sub-neg-intro/v/adding-and-subtracting-negative-number-examples

<u>Multiplying and dividing</u> positive and negative numbers: https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-mult-divide-negatives/v/multiplying-positive-and-negative-numbers

<u>Order of operations</u>: https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-order-of-operations/v/introduction-to-order-of-operations

➤ On the following pages you will find two additional activities related to integers. Here is the summary for them:

Additional Activity 1: Integer Racing
Solving equations with positive and negative numbers through a game! You can print out and use the attached game board or copy it onto a separate page and play that way. You will need counters (which could be anything- be creative!) and a dice. You can play it with a partner or alone.

Additional Activity 2: From One to Ten Challenge
Making equations using positive and negative numbers. Don't forget your order of operations (PEDMAS/BEDMAS)! You will need a deck of cards -> Or you can create your own cards numbered from -10 to 10.

Additional Activity 1: Integer Racing

Play in pairs. Alternatively, play alone, simply choose two different coloured cars and try to guess which colour car will win. Play the game to find out!

What you will need: *Integer Racing Blank* (Master 2.7b see below), 2 different counters to represent the cars, and a 6-sided die.

How to Play:

➢ Players start their cars at 0.

➢ Both players roll the die. The player with the highest roll goes first.

➢ Player 1 rolls the die again to select a row of *Integer Racing Expressions*. Player 1 chooses a box in that row and marks it with an X to show it is unavailable. The value of the expression in the box shows how many spaces to move the car: positive values move the car around the track counter-clockwise and negative values move the car around the track clockwise.

➢ Player 2 selects any available box in the same column as Player 1's box. After Player 2 moves his or her car, Player 1 selects any available box in the same row as Player 2's box.

➢ Play continues until one of the players cannot select a box. The player whose car has gone farther around the track in the positive direction is the winner.

Take It Further: Make your own set of *Integer Racing Expressions*.
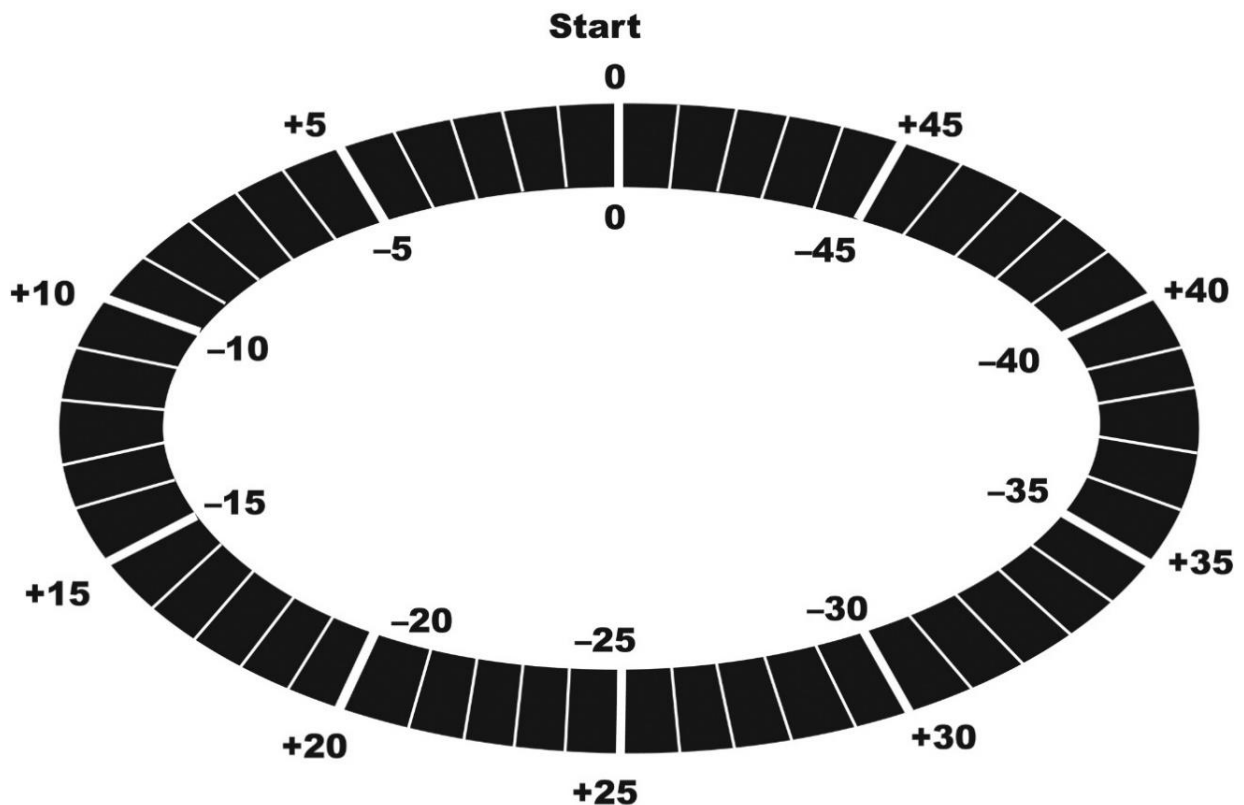
Integer Racing (cont.)

Integer Racing Expressions Table

(−2) × (−4)	25 ÷ (−5)	1 × (−7)	21 ÷ 7	(−14) ÷ (−2)	(−36) ÷ 6
(−28) ÷ 4	(−9) × (−1)	56 ÷ 8	(−35) ÷ (−7)	(−1) × (−4)	(−20) ÷ 5
(−8) × 1	32 ÷ 8	(−24) ÷ (−3)	2 × (−2)	10 ÷ (−2)	(−6) × (−1)
15 ÷ 5	(−45) ÷ (−5)	(−1) × (−1)	(−49) ÷ 7	2 × 3	36 ÷ (−9)
1 × 5	(−42) ÷ 6	27 ÷ 9	48 ÷ (−8)	1 × (−2)	(−18) ÷ (−6)
24 ÷ (−6)	(−3) × (−3)	0 ÷ (−2)	3 × 1	(−16) ÷ (−4)	16 ÷ 8

Activity 2: One to Ten Challenge

Play in pairs or on your own. For this activity red cards are negative numbers and black cards are positive numbers. You will need a deck of cards without the face cards, a pencil, and scrap paper.

How to Play:
1st - Shuffle the cards and pick four cards.
2nd - Your goal is to look for ways to create expressions with values from 1 to 10 using all four of your numbers; and addition, subtraction, multiplication, division, or brackets.
3rd – Write your numbers in the section below; then fill in the expressions as you create them for each of the numbers 1 to 10 in the blanks below. You can recreate this on a piece of blank paper if you would like.

For example: I choose the cards: Red 2, Black 4, Black 8 and Red 3. My numbers are: -2, -4, 2 and 3. I now will use these numbers to create expressions that have values from 1 to 10 using any operation and brackets. The first one I will try is the value of 1. Expression: $\underline{(-4 + 3) \times 2}$ = 1
$$ \frac{}{-2}$$
Numbers on your four cards:

Write your Expressions here:

1:_____   2._____

3:_____   4._____

5:_____   6._____

7:_____   8._____

9:_____   10._____

Take It Further: Create expressions with values from −10 to 0.

Basic Facts

Have you been practicing your basic facts? The games we have provided each week can be something to do with your siblings or parents. Have you found a great app that helps you? Tell us about it.

This week, choose 3-4 lesser known multiplication math facts to work on by creating multiple card copies. Start with the smallest ones that give you trouble and get those under control. You can do it!

Give the **Multiplication Tic Tac Toe game** a try. After you finish, create your own!

Multiplication Tic Tac Toe
Multiply by up to 10x10
a game for 2 players

One player is X's and one is O's. Take turns to answer the multiplication and then place X or O over the multiplication. The first player to create a line of 3 is the winner. The line can go across, down or diagonally.

7x6	7x4	8x9
4x2	10x8	6x3
5x10	8x1	6x7

9x2	8x8	8x4
9x5	10x7	9x9
4x10	6x6	10x3

7x3	9x3	3x10
10x6	9x4	5x5
9x1	8x5	7x7

9x8	10x4	7x10
4x1	8x7	6x5
7x9	8x3	5x8

10x10	9x7	5x3
5x4	7x5	5x7
8x6	4x8	6x4

9x6	4x7	6x7
4x9	7x8	6x9
4x4	7x1	8x4

Science

Vegetable Gardens!

Spring is the time of year where farmers and many households begin to plan their vegetable garden. Did you know that some plants grow better when they are planted together? These plants are often referred to as <u>companion plants</u>.

1. If you were going to plant a garden what ten plants would you include? Are any of your plants companion plants? Are some of your plants incompatible?
2. Using the chart below organize your garden to optimize companionable relationships and minimize incompatible relationships.

Science Challenge

Harvest some seeds from the fresh vegetables you have around the house and plant them. Record how well they grow.
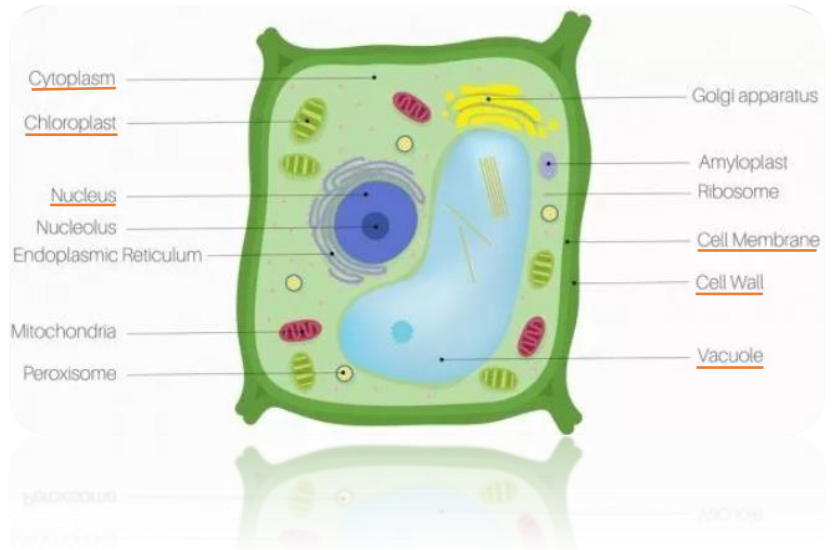
Grade 8: Plant Cell Model Activity

All plants and animals are made up of cells!

This week we are going to focus on plant cells, the role of the 6 underlined organelles in the diagram and creating a 3D model.

Watch this video to find out about the parts of a cell:
https://www.youtube.com/watch?reload=9&v=3nBtY6LR030

Organelle	Role in the Cell	Representation in 3D Model
Cell Wall	Surrounds the plant cell – gives it shape & protection	Aluminium Foil Container
Cell Membrane		
Chloroplasts		
Cytoplasm		
Nucleus		
Vacuoles		

Draw Your Nature Journal!

Do you like to let your artisitic skills shine in all subjects? Do you ever get tired of all the writing we do in school? Give this activity a try. You can work on this every week if you like.

Materials Needed: Blank cards (Don't have any? We have you covered – simply recycle a cereal box by cutting it into 4x6 cards,) pencil, pencil crayons, paints.

ACTIVITY: Take a short walk in a nearby natural area. Choose a plant or animal that you see outside to draw or paint. Be sure to focus strongly on your observation of the chosen plant or animal. Once you have completed the drawing/painting lie down and reflect on what features attracted you to the chosen plants and animals, then record your thoughts on the back of your card or a separate card.

FREQUENCY: Do this activity three times this week – you will then have a collage of drawings that you can add to your journal/notebook that you are keeping for your home learning. Better yet, hang them in your room or give them away to a loved one.

ACTIVITY OPTIONS: A) Photograph your plant or animal in addition to drawing it.
B) Record questions along with recorded observations.

Social Studies

Hope Blooms
Watch the children of Hope Blooms pitch to the Dragons of Dragon's Den, then answer the questions that follow:
https://www.cbc.ca/player/play/2418117518

1. Explain what the children of Hope Blooms pitched to the Dragons:
   a) What does Hope Blooms sell?
   b) How much money did they make in one year?
   c) What do they hope to do with the money from the Dragons?
2. What is a social entrepreneur? (You may be able to infer the meaning of this term from watching or you may have to research this term.)
3. How are the children of Hope Blooms an example of social entrepreneurs?

Investigate the Hope Blooms website.
1. Read through the "Impact" section. https://hopeblooms.ca/impact/ What are three ways that Hope Blooms has had an impact on the community?
2. Read through the "Community Programs" section. https://hopeblooms.ca/programs/ Explain any one of the six types of programs that are available in the Hope Blooms community.

Optional Extension activity: Try one of their recipes. https://hopeblooms.ca/recipes/

Victory Gardens
Read the following article on victory gardens and answer the questions that follow:
https://thecanadianencyclopedia.ca/en/article/victory-gardens-editorial

1. What is a victory garden?
2. Why did people plant victory gardens?
3. List 5 examples of veggies that would have been grown in WWI victory gardens.
4. Besides WWI, when were victory gardens used?

Read the following article about modern victory gardens.
https://www.cbc.ca/news/canada/newfoundland-labrador/anide-bulman-growing-food-indoors-during-the-pandemic-1.5524799 Why would someone want to plant a victory garden today?

Extension possibilities:
A) Research victory gardens for saving the bees
B) Research victory gardens for furthering sustainable development goals

Other Activities/Links

Khan Academy https://www.khanacademy.org/ , **also in FRENCH** https://fr.khanacademy.org/

(This is an excellent resource for mathematics, as well as higher level sciences. It includes free expert- created lessons with quizzes that have a 'game' format where you can earn points.)

Interested in science? Check out https://www.nasa.gov/nasa-at-home-for-kids-and-families

Check out the *Florenceville Middle Home and School* **Facebook page** for weekly challenges to get our Falcons interacting! Also, find daily science, technology, engineering and math challenges at the **Brilliant Labs Facebook Page**

FREE book in English and French, both e-book and audiobooks! Go to https://Soraapp.com, type **NB** in the "find my school" field, then select "New Brunswick Department of Education and Childhood Development." Use your school username and password to sign in!

FMS Learning Opportunities for the week of May 4-8, 2020				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
✓ Read 30 minutes ✓ Physical Activity ✓ Math Facts ✓ Mental Math ✓ Daily Writing ✓ Nature Journal	✓ Read 30 minutes ✓ Physical Activity ✓ Math Facts ✓ Mental Math ✓ Daily Writing ✓ Nature Journal	✓ Read 30 minutes ✓ Physical Activity ✓ Math Facts ✓ Mental Math ✓ Daily Writing ✓ Nature Journal	✓ Read 30 minutes ✓ Physical Activity ✓ Math Facts ✓ Mental Math ✓ Daily Writing ✓ Nature Journal	✓ Read 30 minutes ✓ Physical Activity ✓ Math Facts ✓ Mental Math ✓ Daily Writing ✓ Nature Journal

Weekly Activities

Grade 6	Grade 7	Grade 8
✓ Article "Twilight Comes Twice" ✓ Garden Idioms ✓ Garden Haiku ✓ English Reading Article: *Should All Children Get an Outdoor Education?* Article: *Great Pumpkins! Grower Wins Trifecta of Giant Food Titles* ✓ French Reading Article: *3 jardins scolaires en collaboration avec la municipalité grâce à Monsieur Jardin* ✓ How fast can you walk? ✓ Design a garden ✓ Order of Operations ✓ Look out for Angles! ✓ Multiplication Tic Tac toe ✓ Plan your Veggie Garden ✓ Science Challenge ✓ Food Web ✓ Draw your Nature Journal ✓ Hope Blooms Video & Questions ✓ Victory Garden Article	✓ Article "Twilight Comes Twice" ✓ Garden Idioms ✓ Garden Haiku ✓ English Reading Article: *Insects Interacting with Plants Play Mighty Roles on Earth for Millennia* ✓ French Reading Article: *Les Albertains cultivent des potagers durant la pandémie* ✓ How fast can you walk? ✓ Design a garden ✓ Greatest Sum! ✓ What's the temperature? ✓ Multiplication Tic Tac toe ✓ Plan your Veggie Garden ✓ Science Challenge ✓ Earth's Crust: Soil Composition Activity ✓ Draw your Nature Journal ✓ Hope Blooms Video & Questions ✓ Victory Garden Article	✓ Article "Twilight Comes Twice" ✓ Garden Idioms ✓ Garden Haiku ✓ English Reading Article: *Urban Students Grow Food at Los Angeles School Garden* Article: *Great Pumpkins! Grower Wins Trifecta of Giant Food Titles* ✓ French Reading Article: *Cette Famille attaint l'autosuffisance allimentaire* ✓ How fast can you walk? ✓ Design a garden ✓ Integer Racing ✓ From One to Ten Challenge ✓ Multiplication Tic Tac toe ✓ Plan your Veggie Garden ✓ Science Challenge ✓ Plant Cell Model Activity ✓ Draw your Nature Journal ✓ Hope Blooms Video & Questions ✓ Victory Garden Article

Other Activities

✓
✓
✓