



Centreville Community School



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Grade 8 HOME LEARNING PLAN

Grade:	8
TEACHERS	Grant Robison, Iris Hitchcock, Kim Foster, Angela Taylor and Melissa Richardson
Chris Sparrow	Principal : Christopher.Sparrow@nbed.nb.ca
Kori Springer	Resource: Kori.Springer@nbed.nb.ca
David Mahar	Guidance: David.Mahar@nbed.nb.ca
School	CentrevilleCommunity@nbed.nb.ca

In accordance with the communication sent from our Minister of Education, Dominic Carty, on April 2, 2020 Home learning opportunities to support literacy, numeracy, science and social studies outcomes will be made available online weekly by Middle School Teachers.

Families are encouraged to:

- Support their children to complete the options below for an average of **two hour per day**.
- Read aloud with their children daily; and
- Consider daily physical activity and free play as an important part of their child's mental health and skill development.

Subjects	Description of Learning Activities
<p>Grade 8 Literacy</p> <p>If you want to "pass in" your weekly writing piece to the group "English Language Arts 8-8F" in Microsoft Groups, under assignments, there are the weekly descriptions. I will provide feedback of what you're</p>	<p>WRITING - Keeping a daily journal is a great way to get your thoughts down on paper, about what is going on in the world these days, having to stay home, or whatever you're thinking about. It can be on paper or on the computer. Middle School students should be able to write at least $\frac{3}{4}$ to 1 page for each journal entry.</p> <p>Now that the weather is getting more spring-like, (except for last Friday!!!) for your weekly writing activity, take whatever you're writing with (if possible) out on your deck, porch, front step, lawn, etc. and use your 5 senses to write about what is around you. What you see, hear, smell, feel...probably not taste!! But if you take a snack/drink out with you...why not?? Write a paragraph for each of the senses. Please include descriptive words and phrases and many details. Paint a picture, so I can "see" what you're seeing, "smell" what you're smelling, etc.</p> <p>For everything you write: please remember to use periods/punctuation, capital letters where they are needed and check your spelling of words you're supposed to know. I put a picture of the Writing Traits that are up on my bulletin board for Grades 6 and 7. Grade 8's can use the Grade 7 ones. They're pretty much the same for all Middle School students.</p>

doing well and what you need to keep working on. Your Reading Response assignment is in there too, if you want to send it to me. Iris Hitchcock iris.hitchcock@nbed.nb.ca

READING – You should be reading at least 30 minutes each day. This could be any of the following: books, magazines, newspapers (yes, they still make paper ones but you could read online news too), online blogs, articles, e-books (borrow some from the public library). You could read to younger siblings too. Once a week, I would like you to write a response to something you have read. You could tell something about the characters, setting, what is happening in the story, any interesting words you find, your favorite/least favorite part or predict what will happen in the next part of the book. If you are reading non-fiction (informational) material, tell 4 things you learned that you didn't know before or something you already know that wasn't in the article.

Grade 8 Social Studies

If you have any questions about the Social Studies activities, please contact -

Melissa Richardson melissa.richardson2@nbed.nb.ca

If you would like to submit your completed products for feedback, you can email the doc or pic to the above email address.

Feel free to upload them to Microsoft Groups, under assignments, as well. A Social Studies 8 - 8F group has been activated for those who are interested.

Canada and the Titanic:

Last week we learned about the sinking of the Titanic, but this week we are going to focus on Canada's link to the tragedy. Research Canada's connections to the Titanic by watching the following videos:

<https://www.youtube.com/watch?v=wNQyvGM2eyA>,
<https://www.youtube.com/watch?v=fgTdcgqAC7Q>

visiting these sites:

<https://www.novascotia.ca/titanic/>
<https://www.thecanadianencyclopedia.ca/en/article/titanic>
<https://www.rcinet.ca/en/2019/04/15/canada-history-april-15-1912-titanic-disappears-off-newfoundland/>

and/or reading the attached worksheets (Grade 8 Titanic page3and4.pdf).

What are your observations & reactions?

What conclusions can we draw from the websites and reading passage?

What was the most interesting fact you learned? Why?



Product: Create a newspaper article to represent your knowledge of Canada's connection to the Titanic. Your article should be included on the front page of a Canadian newspaper (your choice) complete with headlines, titles, pictures and ads. (8½ x 11)




Grade 8 Numeracy

If you have any questions about the Numeracy activities, please contact -

Kim Foster
kim.foster@nbed.nb.ca

April 20th to April 24th – Offline Math Choice Boards (Grade 8)

Monday	Tuesday	Wednesday	Thursday	Friday
The average of six numbers is 7. Two new different numbers are added and the new average is 8. Find the two new numbers.	In trail mix, the ratio of cups of peanuts to cups of chocolate chips to cups of raisins is 3:2:1. How many cups of chocolate chips and raisins would be needed for 9 cups of peanuts?	Write an expression to represent the situation. The skating rink charges \$100 to reserve and then \$5 per person. Write an expression to represent the cost for any number of people. How much would it cost for 60 people?	List all the factors of 144. List all the factors of 64. What are the common factors of 144 and 64? What is the greatest common factor of 144 and 64? Are these numbers perfect squares? How do you know?	Alisa had 1/2 L of juice in a bottle. She drank 3/8 L of her juice. What fraction of the juice in the bottle did Alisa drink?
Explain why this doesn't make sense: Sam wrote $\frac{3}{4} \text{ hr} + \frac{1}{2} \text{ hr} = \frac{4}{6} \text{ hr.}$ saying that he had worked on the computer for 45 minutes and watched television for half an hour. Explain his mistake in determining the total time he spent on these activities. What is the correct answer (expressed as a fraction)?	<p>Which One Doesn't Belong?</p> 	A container is half full. When half a cup of juice is added to it, the container is three quarters full. How much liquid can the container hold? Model or draw your answer.	Order the following quantities on a number line: 0, 4/8, -2, 1, 1/2, 2.5, 9.8, -4. Consider, what is the largest quantity on the number line? What is the smallest?	Find a recipe for making cookies. How would the measurements change if you only had half the needed flour? How would the measurements change if you wanted to make triple the cookies? Rewrite the recipe to show what is needed to make half the number of cookies and triple the cookies.

April 20th to April 24th – Offline Math Games (Grade 8)

Probability Dice Game

Objective is to allow students to compare theoretical and experimental outcomes.

Two or more players are needed. Two number cubes each with 1, 2, 3, 4, 5, 6. (If you do not have die, place 12 small pieces of paper in a container; so you have 2 of each digit (1-6) in the container.) Take turns rolling the dice (or pulling 2 numbers from a container). If the total roll is an even number, player A gets a point. If the total roll is greater than 7, player B gets a point. Before playing, determine the theoretical probability of each player earning a point. (Eg. Theoretical probability of rolling a 1, 2 or 3 on a die is 3 out of 6, recorded as 3/6 or 3:6 or 50%) You can also make your own rules, especially if there are more than 2 players. Keep track of the outcomes in a tally chart. How do your experimental results compare with the theoretical probability?

Math facts

Daily Practice, 10 minutes

Make cue cards with multiplications from 1 x 1 to 12x 12 on the front of the cards. On the back of the cards, write the answers. Use these to practice multiplication skills! (For a challenge, you can time yourself and see how many you can get right in a certain amount of time and set a goal to see your improvement!)

Integer War Game: All black cards are positive. All red cards are negative. Players turn over TWO cards and have them add or subtract integers. The student with the highest result wins

Play Multiplication or Addition War! – See week of April 14th for rules

April 20th to April 24th – Online Math Choice Boards (Grade 8)

Monday	Tuesday	Wednesday	Thursday	Friday
Game 1: Addition of Integers	Game 2: Multiply Fractions	Game 3: Logic (find the individual price)	Game 4: Addition of Integers	Game 5: Area
IXL Online Practice - I have a 30-day free trial and have set all middle school students up with a username and password. If you didn't receive the email from IXL with this information, please let me know and I will forward it to you for your child.				
Ratios, rates and proportions I.1 Understanding ratios I.2 Identify equivalent ratios I.3 Write an equivalent ratio I.4 Equivalent ratios: word problems I.5 Unit rates I.6 Compare ratios: word problems	Ratios, rates and proportions I.7 Solve proportions: word problems I.8 Do the ratios form a proportion? I.9 Do the ratios form a proportion: word problems I.10 Solve proportions I.11 Estimate population size using proportions I.12 Scale drawings: word problems	One-variable equations X.1 Which x satisfies an equation? X.2 Write an equation from words X.3 Model and solve equations using algebra tiles X.4 Write and solve equations that represent diagrams X.5 Properties of equality X.6 Solve one-step equations X.7 Solve two-step equations X.8 Solve equations involving like terms X.9 Solve equations: complete the solution X.10 Solve equations: word problems	Exponents and roots G.6 Square roots of perfect squares G.7 Estimate square roots G.8 Relationship between squares and square roots G.9 Solve equations involving squares and square roots Operations with fractions D.1 Write fractions in lowest terms D.2 Least common denominator D.3 Add and subtract fractions with like denominators D.4 Add fractions with unlike denominators D.5 Subtract fractions with unlike denominators D.6 Add and subtract mixed numbers	Operations with fractions D.8 Reciprocals and multiplicative inverses D.9 Multiply fractions and whole numbers D.10 Multiply two fractions using models D.11 Multiply fractions D.12 Divide whole numbers by unit fractions using models D.13 Divide whole numbers and unit fractions D.14 Divide fractions

April 20th to April 24th – Online Math and Tech Games (Grade 8)

Some Middle School Web Sites for Math, Tech and/or Science

- www.everfi.net
- [Sumdog \(I only have passwords for grade 6\)](#)
- [Hour of Code](#)
- <https://www.typing.com/>

Sources for Grade 6 offline and online learning:

- A Guide to Effective Instruction, Geometry and Spatial Sense Grades 1-3, Ministry of Education, 2016
- A Guide to Effective Instruction, Data Management & Probability, K-3, Ministry of Education, 2007
- Open Questions for the Three-Part Math Lesson - Number Sense and Numeration: Gr. 4-8 M. Small
- Open Questions for the Three-Part Math Lesson – Measurement/Patterning and Algebra – Grades 4-8 M. Small
- Teaching Student-Centered Mathematics Gr. 6-8 John Van de Walle,
- Making Math Meaningful Marion Small, 2013
- Box Cars and One-Eyed Jacks Jane Felling
- What to Look, Alex Lawson
- <https://schools.wrdsb.ca/athome/learn/elementary-2/healthy-active-living/> Jo Boler, YouCubed website:
- “The Roll Out Fractions Game: Comparing Fractions” by Enrique Ortiz in [Teaching Children Mathematics](#), August 2006

Grade 8 Science

If you have any questions about the Science activities, please contact -

Melissa Richardson
melissa.richardson2@nbed.nb.ca

If you would like to share a picture or video of you completing an experiment, I would love to see it! You can simply email the pic/video to the above email address.

Feel free to upload them to Microsoft Groups, under assignments, as well. A Science 8-8F group has been activated for those who are interested.

Buoyancy Continued - Archimedes' Principle

Watch the following videos:

↳ <https://www.youtube.com/watch?v=ijj58xD5fDI>,
↳ <https://www.youtube.com/watch?v=0v86Yk14rf8>,

and/or visit these websites:

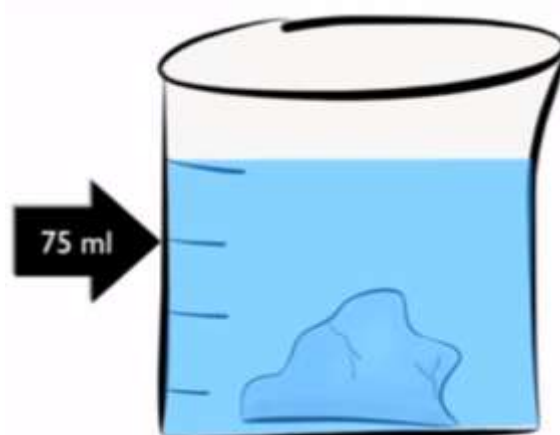
↳ <https://study.com/academy/lesson/archimedes-principle-definition-lesson-for-kids.html>,
↳ <https://www.theschoolrun.com/homework-help/archimedes>



After learning the basics about Archimedes' principle try recreating Archimedes' water displacement experiment:

<https://www.youtube.com/watch?v=fh4WcyusoCc>
<https://www.youtube.com/watch?v=rOs3acfnLww>

- Pour some water into a measuring cup or cylinder, making sure that there is enough to cover the object completely. Note the volume.
- Immerse an objects in the water - if the object floats, you will have to gently push it under with your finger
- Measure the new volume
- Repeat the process with the other two objects; i.e., use three similar sized objects, such as three pebbles (limestone, granite and brick), three metal objects (iron, lead and aluminum) or three beads (wood, glass and metal).



In celebration of Earth Day (Wednesday, April 22, 2020) you may also wish to read "The Lorax" by Dr. Seuss: <https://www.youtube.com/watch?v=EdWesdMfyd4> or watch the movie on Netflix.

Physical Education

Grant Robinson
Grant.Robinson@nbed.nb.ca

Phys. Ed. activities for middle school students will be posted by Mr. Robinson weekly. You can find these under "Class Announcements > Phys Ed 6-8" on the school website.