SD83 Home Learning Opportunities – Grade 8
April 20th to 24th, 2020

Dear Parents/Caregivers,

We hope you had a wonderful weekend with your family. Here are some possible learning opportunities for your child this week. Hopefully you will have a chance to explore the "Website of the Week" as there are some great Science videos there.

**Monday
April 20th**

Health & Well-Being: Spell Your Name Workout – go outside and perform each movement according to the letters in your name.

SPELL YOUR NAME
DO THE WORKOUT EVERY DAY

A: 10 PUSH UPS	**N:** 5 SETS OF STAIRS
B: 1K JOG	**O:** 20 LEG RAISES
C: 10 SQUAT JUMPS	**P:** 1 MIN PLANK
D: 20 BURPEES	**Q:** 30 STAR JUMPS
E: 10 SQUATS	**R:** 2 MIN SKIPPING
F: 20 STAR JUMPS	**S:** 20 BURPEES
G: 20 LUNGES	**T:** 30 SEC PLANK
H: 1 MIN SKIPPING	**U:** 15 SQUATS
I: 45 SEC PLANK	**V:** 15 PUSH UPS
J: 3 SETS OF STAIRS	**W:** 20 SIT UPS
K: 10 BURPEES	**X:** 10 LUNGES
L: 20 SQUATS	**Y:** 20 SQUAT JUMPS
M: 2 MIN PLANK	**Z:** 2 MIN PLANK

Literacy: Read a book of your choice.

Create a commercial for how to effectively wash your hands. Think about tone, and audience to make it unique. Perform it live for your family or, through technology, record it so that it could be shared with a younger audience.

Numeracy: Emily's new puppy T-Bone had a mass of $2\frac{2}{5}$ kilograms. After a month, the puppy had a mass of $3\frac{3}{4}$ kilograms. How much mass did T-Bone gain in that month? Write your answer as a fraction.

"Would You Rather?" - Consider the two options below and decide which one you would choose. Explain your reasoning and support it with mathematical thinking.

YOU ARE TRYING TO SAVE MONEY FOR A PURCHASE. WOULD YOU RATHER...?

Work five days week, 3 hours a day at $7.00 an hour?

Work four days a week, working 2 hours a day, making $11.00 an hour?

Health & Well-Being: Write or draw about how you are feeling. Talk about your drawing or writing with someone in your family, with a friend, or with an adult you feel comfortable with.

Literacy: Read a book of your choice.

Write a short summary explaining what would happen if your favourite movie had a sequel.

Numeracy: In a survey, one out of five students said they did not like peanut butter and jam sandwiches. How many students do like peanut butter and jam sandwiches? Write your answer as a) a fraction, b) a decimal, and c) a percent.

Challenge: Use the digits 0 through 9, at most one time each, to create an equivalent fraction and decimal.

$$\frac{\square}{\square} = \square.\square$$

Tuesday April 21st

Health & Well-Being: "Deck of Cards" - Assign a movement to each of the 4 suits (remove the face cards).

Example:

Diamonds= Jumping Jacks

Clubs = Lunges

Hearts = Squats

Spades = High Knees

Pick a card from the deck and have perform the number and type of movement that corresponds with the chosen card. As an example, if you pick 3 of hearts, perform 3 squats. Can you go through the whole deck?

**Literacy:** Read a book of your choice.

Choose a song you like. What is the theme? (This song tells about...) What is the mood? (Joyful, bitter, eerie, angry, determined...) Write about how it makes you feel.

Numeracy:

In a particular dice game, even numbers on the die are worth (+2) point and odd numbers on the die are worth (-3) point. The person with the largest sum after 10 rolls is the winner. Who had the greatest sum for the following two players?

Player One's outcomes from 10 rolls:	Player Two's outcomes from 10 rolls:
3, 6, 1, 6, 1, 2, 5, 5, 3, 5	4, 5, 2, 4, 1, 6, 3, 5, 1, 3

Patterns: from visualpattern.org
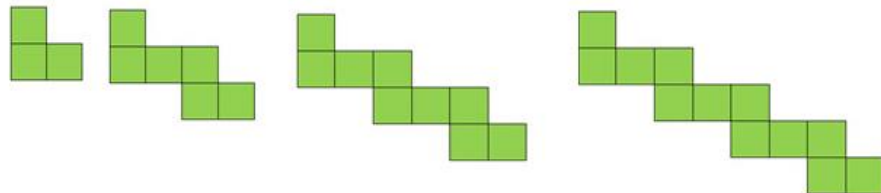
How many squares are in the next figure?

How many squares are in the 43rd figure?

What is the perimeter of the 4th figure?

What is the perimeter of the 43rd figure?

Wednesday April 22nd

Thursday **April 23rd**	**Health & Well-Being:** Create a poster with an uplifting saying and post it in an area visible to others or use chalk and write a positive message on a sidewalk.
	Literacy: Read a book of your choice. Create five hashtags that describe your life today. #becreative
	Numeracy: A jug of laundry liquid detergent has a volume of 3.56 litres when it is full. The manufacturing company suggests that each load of dirty clothes uses 0.04 litres of soap. How many loads of dirty laundry can the jug of detergent wash at this rate? Problem of the Week link: https://sd83.bc.ca/math-problems-of-the-week/
Friday **April 24th**	**Health & Well-Being:** Put on your favourite upbeat songs and have a Dance Party. Teach your family a dance move like The Floss, Rake the Lawn, Pick the Apples, or do The Sprinkler! If you want to follow along with someone else, check out these Dancepl3y video's.
	Literacy: Read a book of your choice. Acts of Kindness: Write a plan for how you will add kindness to the world, even from a distance. How will you carry out your plan?
	Numeracy: A cell phone plan charges a monthly fee of $39.50, plus a rate of $0.25 for every minute talking. What is the total monthly charge if someone talked for 320 minutes on their phone? Fun Friday game link: https://sd83.bc.ca/family-math-games/

Website of the Week

https://billnye.com/the-science-guy
Spend some time exploring a variety of interesting Science videos with Bill Nye the Science Guy.

Numeracy Solutions

Monday	Change in mass after a month: $3\frac{3}{4} - 2\frac{2}{5} = 3\frac{15}{20} - 2\frac{8}{20} = 1\frac{7}{20}$ kilograms Would You Rather? – answers will vary
Tuesday	Liking peanut butter and jam sandwiches: four out of five students. a) 4/5 b) 4 ÷ 5 = 0.8 c) 80% Challenge solution: There are multiple solutions- here are a few- see if you can find more. $\frac{1}{2} = 0.5$ $\frac{1}{5} = 0.2$ $\frac{3}{2} = 1.5$ $\frac{6}{5} = 1.2$
Wednesday	**Player One's outcomes from 10 rolls:** 3, 6, 1, 6, 1, 2, 5, 5, 3, 5 →substitute point values [Even numbers (2,4,6) are worth (+2) points and odd numbers (1,3,5) are worth (-3) points]: (-3) + (+2) + (-3) + (+2) + (-3) + (+2) + (-3) + (-3) + (-3) + (-3) = [7 x (-3)] + [3 x (+2)] = (-21) + (6) = (-15) **Player Two's outcomes from 10 rolls:** 4, 5, 2, 4, 1, 6, 3, 5, 1, 3→substitute point values: (+2) + (-3) + (+2) + (+2) + (-3) + (+2) + (-3) + (-3) + (-3) + (-3) = [4 x (+2)] + [6 x (-3)] = (8) + (-18) = (-10) **Negative 10 is closer to zero than negative 15, therefore Player 2 is the winner** Pattern solution: 5th figure: 15 squares 43rd figure: 129 squares 4th figure perimeter: 26 units 43rd figure perimeter: 260 units
Thursday	Number of washes: 3.56 ÷ 0.04 = 89 washes

Friday	Cost = (Monthly fee) + (Cost per Minute Talking)
	      = $39.50 + $0.25 x 320
	      = $39.50 + $80
	      = $119.50