

# FAMILY MATH NIGHT PLAN: My Public School, February 25<sup>th</sup> 2015

<p><b>FOOD &amp; DRINK</b></p> <ul style="list-style-type: none"> <li>• Pizza, Milk and Cookie - \$3.50/pp</li> <li>• Send <b>home flyers</b> to advertise and collect orders 2 weeks ahead</li> <li>• Dinner prior to embarking on math stations and activities</li> <li>• Bake Sale Fundraiser Table</li> </ul>	<p><b>MEET &amp; GREET</b></p> <ul style="list-style-type: none"> <li>• Intermediate student volunteers</li> <li>• Sign in, fill out <b>door prize ticket</b></li> <li>• Upon arrival, families obtain passport with pre-filled Name and dinner voucher</li> </ul>	<p><b>LAYOUT/SETUP</b></p> <ul style="list-style-type: none"> <li>• Create <b>Family Passport</b> for stamping at each activity</li> <li>• Use Gym, Library, Foyer, Main floor classrooms</li> </ul> <p><i>*Family Passport attached in PDF*</i></p>	<p><b>GROUP DEBRIEF &amp; GOODBYE</b></p> <ul style="list-style-type: none"> <li>• Announce 15 minutes prior to debrief that stations will be closing and to head back to the gym</li> <li>• Collect completed passports for prizes and complete draw</li> <li>• Principal's message to parents</li> </ul>
<p><b>MATH STATIONS &amp; ACTIVITIES</b></p> <ol style="list-style-type: none"> <li>1. Estimation Jar</li> <li>2. QR Code Fractions Scavenger Hunt</li> <li>3. Tangrams - create your own</li> <li>4. 3-D Shapes &amp; Polyhedra - Pipe-cleaner/straws &amp; Marshmallows./Toothpicks</li> <li>5. Junior: Tarsia Puzzle for Algebra (Equality)</li> <li>6. Operations Board Game - create your own</li> </ol> <p><i>*See page 4 for details*</i></p>		<p><b>TAKE HOME ACTIVITIES</b></p> <ul style="list-style-type: none"> <li>• Community donated Swag-Bag for collecting items</li> <li>• Donated calculators, pens, pencils, notebooks for each family</li> <li>• Create a tangram kit at station 3, provide cardstock &amp; mini Ziploc plus book of shapes to take home.</li> <li>• Operations Board Game template and a free set of dice</li> </ul>	
<p><b>LIBRARY</b></p> <ul style="list-style-type: none"> <li>• Scholastic Book Fair</li> <li>• Author on hand to sign books</li> <li>• Forest of Reading Video Book Talks posted on QR codes</li> <li>• Spotlight on Grace Coates' books: "Family Math: For young Children" and "Family Math II"</li> </ul>	<p><b>PAMPHLET</b></p> <ul style="list-style-type: none"> <li>• Provide a <b>handout for parents</b> on tips to incorporate Math at home, ways to use the take-home activities from Math night.</li> </ul> <p><i>*Handout attached in PDF*</i></p>	<p><b>TECHNOLOGY</b></p> <ul style="list-style-type: none"> <li>• Computer lab station with virtual manipulative sites, homework help information,</li> <li>• SmartBoard set up with variety of interactive math games</li> </ul>	<p><b>PRIZES</b></p> <ul style="list-style-type: none"> <li>• Door Prizes - community donations: gift cards, math books, scholastic shopping sprees, school supplies, Lunch Lady subscription</li> <li>• Passport Prize at the end (ENTER into draw upon arrival at the gym for debrief presentation)</li> <li>• Games prizes in some stations</li> <li>• Raffle tickets 3 for \$2 to win the Family Math books by G. Coates</li> </ul>

# Agenda

5:30pm - Volunteers arrive & Set up stations, dinner tables

5:45-6pm - Pizzas arrive, Drinks and Cookies set up

5:45pm-6:00pm - Parents & Students arrival

6:00-6:30pm - Dinner in Gym

6:30-7:45pm - Math, Library and Technology Activities

7:45pm-8:00pm - Principal's Closing remarks & Passport Draw

# Technology

Prodigy Math

National Library of Virtual Manipulatives

Student CLIPS

XtraMath

Smart Board - Interactive games from Leaps & Bounds resources

# Prizes

Donated from Local Businesses/SCC:

5 x \$25 food gift cards

2 x Movie Night for 2 packs

5 x \$10 Dollarama cards

4 x \$25 Scholastic Spree at BookFair

10 x Pizza Day Lunches

Grace Coates Family Math Books Fundraiser Raffle

2 x 6-week Lunch Lady Subscriptions

# Layout & Room Locations for Math Night

<p>LOBBY</p> <ul style="list-style-type: none"> <li>• Sign in table</li> <li>• Raffle tickets</li> <li>• Hand Out SWAGBAG and Passport to each family</li> </ul> <p>STAFF: Mrs. W, &amp; Miss. L. 4 Leadership Students</p>	<p>LIBRARY</p> <ul style="list-style-type: none"> <li>• Book Fair set up</li> <li>• Author Book Signing</li> </ul> <p>STAFF: Librarian Miss. H, Mr. B 2 Leadership students</p>	<p>Classroom 1A / Classroom 1B</p> <ul style="list-style-type: none"> <li>• Primary Polyhedron Activity with straws and pipe-cleaners</li> <li>• 3D Shapes Activity (Marshmallows &amp; Toothpicks)</li> </ul> <p>STAFF: Mr. A, Miss K, Mr. P and 2 Leadership students</p>	<p>GYMNASIUM</p> <ul style="list-style-type: none"> <li>• Dinner - 6 tables set up to dish pizza, cookies and drinks</li> <li>• Large tables set up for Intermediate Math QR code activity &amp; Junior Math Tarsia puzzle activity</li> <li>• Chairs set up for principal's message</li> <li>• Bake Sale</li> </ul> <p>STAFF: Mrs. C, Mrs. N. Parent Volunteers and Teacher team for Pizza, 4 Leadership students Mr. D for Math activity with 2 leadership students (bank set of iPods)</p>
<p>HALLWAY B - Main Floor</p> <ul style="list-style-type: none"> <li>• Guess How Many Jar</li> </ul> <p>STAFF: Mrs. F. + Leadership Student</p>	<p>COMPUTER LAB</p> <ul style="list-style-type: none"> <li>• SmartBoard activity</li> <li>• Laptops and Desktops signed in at math sites</li> </ul> <p>STAFF: Mr. T, Miss P. 2 Leadership students</p>	<p>ALL PURPOSE ROOM</p> <ul style="list-style-type: none"> <li>• Tangram Activity</li> <li>• Board Game Activity</li> </ul> <p>STAFF: Numeracy Coach and 2 Leadership Students</p>	

# Math Activities – Specific Details

1. Estimation Jar - Participants guess how many jellybeans are in the jar
  - Fill one large Fish bowl jar with jelly beans, and place a smaller jar with exactly 25 beans to show a reference amount. Ask "What is a reasonable estimate?"
  - Students and parents may fill in the tickets provided - winners announced at the closing
2. Int. QR Code Fractions Scavenger Hunt \*as seen here <http://bit.ly/QRcodeFractions>
  - On the far side of the gymnasium, a large L table will be set up with QR Codes on various posters.
  - Pencils and worksheets will be given to families as well as an iPod for scanning if they do not have their own device.
  - The first QR code has a START label, and from then on, they need to get the right answer to find the next card to scan. (Labelled with a fraction that would have been the solution from the previous fractions operation question they got when they scanned the code).
  - At the end of the hunt, they will get a message congratulating them on finishing. (Finishers will receive a small prize at the station if they complete the hunt.)
3. Tangrams - <http://bit.ly/tangramactivity>
  - Parents & students will use stencil kits & colourful cardstock to trace and cut their own tangram kit.
  - Staff will facilitate a tangram explanation and activity.
  - Directions and tangram shapes will be given out to take home.
4. . Primary. Polyhedra Pipecleaner&straw OR Marshmallow and toothpick creation station \*seen here: <http://bit.ly/IMozk45> and here: <http://bit.ly/lzgZOLK>
  - Geometry board with various 3D shapes posted at this station
  - Tables laid out with a variety of sizes of pipe cleaners and straws, second area with marshmallows and toothpicks
  - Students and parents create their own 3D shapes and record the number of vertices and sides of the shape they have created and locate the name on the poster board.
5. Junior: Tarsia Puzzle for Algebra (Equality) \*similar to the activity seen here: <http://bit.ly/IEZP09u>
  - Create a tarsia puzzle with matching algebraic equations on the sides. Participants must match equations by lining up the sides of the triangles.
  - Once complete the puzzle will form a specific shape
  - Students & parents can keep their puzzle
6. Operations Board Game - Create & Play
  - Provide a blank game board template \*similar to here: <http://bit.ly/ILarvh4>
  - Students and parents will fill in the operations questions of their choice and then play the game (roll, land on a space - answer correctly and stay, answer incorrectly and move back a space).
  - Families will receive a set of dice and keep the board game they created.