

Math4Fun

A Family Numeracy Program for Parents of Primary Students

Children's Guide
(Guide for the Children's Leader)

The Math4Fun Program has been developed and written by:
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Math4Fun Workshop Schedule

10 to 15 minutes before workshop begins	<p>**For the first week, volunteers need to be at the school a half hour before the program begins to receive instructions and become familiar with the classroom and activities. Volunteers should arrive at this time, so that they can meet with the Teacher Leader to cover what activities will be completed, what needs to be prepared for snack and which book and questions will be used for Quiet Time. Parents should take their child(ren) to the Children's Activity room and be ready to start the workshop on time.</p>
Math4Fun 40 minutes	<p>Take the attendance, and begin the evening with an opening game/activity. Next, math games will be brought out and introduced to the children. Leaders and children will play the games together, focusing on strategies that the games focus on.</p> <p>The Parents' leader will lead the workshop for the parents to prepare them for the math game they will play with their child later in the session. Parents should have their Handbook open for reference.</p>
Game Time 30 Minutes	<p>The children will join the Parent's group. They will sit on the floor in front of the Parents' Coach. The parents will observe the Parents' Leaders playing a game with a child and observe the skills and strategies that were taught in the workshop. The leader will model what he/she expects the parents will be able to do during the game time and at home. Children's Leader will be available for assistance for the Parents' Leader.</p> <p>Using selected groups, parents and children, will find a quiet place (library, gym, or classroom) to play a math game together and practice the skills that they have just been modelled. The Children's Leader will encourage, supervise and assist the parents and children.</p> <p>Children will return the Children's activity room for snacks.</p>
Math4Fun 20 minutes	<p>Children will have a snack and listen to a math story with the Children's Leader and volunteers.</p> <p>Parents' Leader will continue with the workshop and give the parents an opportunity to share their experience with the math game and strategies that they just used with their child(ren).</p>

It is very important to start the evening promptly. The parents need to understand the skills before the demonstration; therefore it is necessary to bring the children in later. If the Leaders watch the timing, this program should run smoothly. The Children's Leaders should have the children ready to join the parents group on time. The evening will go by quickly.

Children's Leaders Role and Responsibilities

1. Call parents before the program starts to remind them of the dates and times.
2. Keep track of attendance and contact parents if they miss a week.
3. Have materials prepared and ready to use before the children arrive.
4. Purchase Children's Activity snacks (see outline in the manual). Please remember to check for any food allergies and/or religious dietary restrictions (e.g. Gelatin)
5. Develop a rapport with the Children and volunteers. (2 to 3 volunteers may be needed)
6. Co-ordinate jobs for the volunteers. If the volunteers are high school students, doing their community service hours, please sign their volunteer forms at the end of the 4 week session with the number of hours they completed.
7. During the Game Time, help to manage the students.
8. Support, encourage and help parents and children during Game Time.
9. Collect current Police Checks for yourself (if you are a volunteer) and other volunteers before the program begins (see principal).
10. Provide feedback at the end of the program to facilitate evaluation of the program.

Children's' Time Project Leaders:

Angie Curtis: angela.curtis@ugdsb.on.ca

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Dana Zevenbergen: dana.zevenbergen@ugdsb.on.ca

Grocery List

** Please note any allergies and any dietary restriction and change snacks accordingly.

Week 1: Fruit Kabobs:
Skewers, grapes, watermelon, pineapple, cantaloupe, bananas, strawberries.
Week 2: Making Trail Mix:
Sandwich bags, paper bowls, measuring cups, Shreddies, pretzels, chocolate chips, Cheerios, yogurt covered raisins, popcorn, sunflower seeds, cranberries, mini marshmallows, Goldfish crackers.
Week 3: Yogurt Parfaits:
Plastic clear cups, spoons, vanilla yogurt, frozen raspberries, peaches, mixberries, etc. granola (box without nuts), fresh bananas or berries for the top.
Week 4: Graduation Banana Splits to share with parent:
Spoons (double, one for child, one for parent and a few extra), plastic bowls, Neapolitan Ice Cream (4 Litre), bananas, cherries, chocolate and butterscotch sauce, whip cream.

Materials Required for Each Week

***Please feel free to alter materials and games to meet the needs of your children

Week 1	<p>Book: Math for all Seasons Games: Card Battle Games (Addition, Subtraction, Greater Than Less Than) From Acing Math e-book Page 9-16</p> <p>Games: Decks of Cards Four Way Countdown Battle Games Number Battle Games (see Card Games) Domino Sumoku Rummikub Bingo Skip-Bo Sequence Numbers Uno</p>
Week 2	<p>Book: Math Curse- Math is Everywhere! Games: Games from week 1 plus Snakes and Ladders Reading Addition Minds Snakes and Ladders Pop for Addition and Subtraction Phase 10 Masters Phase 10 Dice Game Snakes and Ladders</p> <p>100's organizer Hundred boards</p>
Week 3	<p>Book: The Grapes for Math Games: Dice Games- Skunk (Teacher leader will work with Grade 3 students to make it more challenging for them) Games from week 1 and 2 Double it. Sum Board Game Head full of Numbers Golo! Yahtzee Classic Sum Swamp Yahtzee Hands Down</p>
Week 4	<p>Book: No Book for this evening Games: Games from week 1, week 2 and week 3 Get 5 Dice Game Monopoly Junior 20 Express Sequence Rush Hour</p>

Workshop 1

The theme for the parents this evening is “Positive Mindset”.

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Fruit Kabobs



If using wooden or bamboo skewers, make sure all the splinters are off of them by rolling two together in your hands.

Materials:

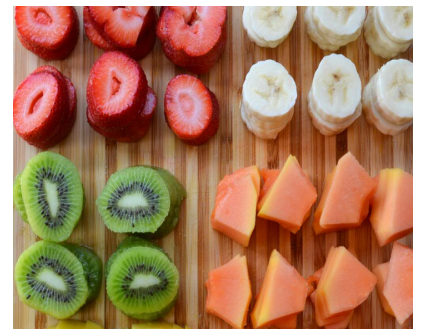
1. Knives
2. Skewers
3. Cutting boards

Ingredients:

Fruit: grapes, watermelon, pineapple, cantaloupe, bananas, strawberries

Directions:

1. Cut the fruit into slices.
2. Students may have 10-20 pieces of fruit for their kabob.
3. Have them count these before they start. Encourage students to use counting by 2's , 5's etc.



Have students make a kabob by putting the fruit onto the skewer. Students are encouraged to make a repeating or growing pattern using the fruit. Older students can also discuss the

fraction of different fruits on their skewer. (i.e., $\frac{1}{2}$ the skewer is strawberries, $\frac{7}{10}$ are not bananas.)

Workshop 2

The theme for the parents this evening is "Math is Everywhere".

5 Minutes	<p>Attendance: Give out t-shirt when parents sign in. Help the children find their Name Tag and ID card. The children will wear the ID cards each night during the program. They will be kept at school and they will earn a sticker for every night they attend.</p>
30 Minutes	<p>Welcome activity: Clap-Slap: Get a rhythm going: two claps, two slaps on lap. Go around the circle filling the blanks to the following chant: My name is (Carl), I come from (California) and I sell (counters). Try to find a math related item that they can sell, (calculators, clocks, fractions, geoboards, hundreds chart, number cubes, pattern blocks, rulers).</p> <p>Play math games. Have Volunteers pick a game that they want to play and teach to the children in small groups.</p> <p>Card game: Reading Addition Minds Snakes and Ladders Pop for Addition and Subtraction Phase 10 Masters Phase 10 Dice Game Snakes and Ladders</p> <p>5 minutes for a washroom break</p> <p>Tidy up and be ready to join the parents. Washroom Break.</p> <p>Parent workshop will last 40 minutes.</p>
25-30 Minutes	<p>Children join their parents to play some Math Games. Have the volunteers put each ingredient for snack (Trail mix) in the plastic bowls, enough for each table.</p>
25 Minutes	<p>Make snack: Trail Mix-see recipe on next page. When the children have snack, have them return their t-shirts.</p> <p>Read the book Math Curse. Ask questions that accompany book.</p>

	<p>When parents pick up their child(ren), have them sign the attendance sheet.</p> <p>Tidy up.</p>
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Trail Mix



Materials:

Sandwich bags, Bowls, hundreds boards, 100 mat, measuring cups

Ingredients:

Shreddies, Pretzels, Chocolate chips, cheerios, yogurt covered raisins, popcorn, sunflower seeds, cranberries, mini marshmallows, goldfish

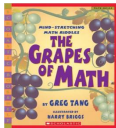
Directions:

1. Put each of the 10 ingredients into bowls for each table.
2. Put out mats/paper outline on table for students to choose from.
3. If a student does not like something, they may double up on 1 or 2 ingredients.
4. Students can count 10 of each ingredient for a total of 100 items in their trail mix.
5. Put an item on each number on the hundreds board or 10 items in each of the sections.
6. Encourage students to count and see patterns. (Counting by 10's)
7. Put their trail mix in a bag. They may eat it or take it home.
8. If there is lots of trail mix ingredients or time left over, students may try making another or extend their counting to 200 and adding. "What happens if we add 10 more Shreddies?"



Workshop 3

The theme for the parents this evening is “Problem Solving”.

5 Minutes	Attendance: Give out t-shirt when parents sign in. Help the children find their Name Tag and ID card. The children will wear the ID cards each night during the program. They will be kept at school and they will earn a sticker for every night they attend.
30 Minutes	<p>Welcome activity: Lineup. Have students line up in order of height, number of family members, number of the bus they ride to school, etc. This is a good energizer for getting your group focused, settled and silent. Try to incorporate shoe size, number of letters in first, middle or last name, favourite numbers etc.</p> <p>Play math games. Have volunteers pick a game that they want to play and teach to the children in small groups.</p> <p>Dice: Skunk (Teacher leader will work with Grade 3 students to make it more challenging for them)</p> <ul style="list-style-type: none"> Double it. (Grades 1-2) Sum Board Game Head full of Numbers Golo! Yahtzee Classic Sum Swamp Yahtzee Hands Down
5 minutes for a washroom break	<p>Tidy up and be ready to join the parents. Washroom Break.</p> <p>Parent workshop will last 40 minutes.</p>
25-30 Minutes	Children join their parents to play some Math Games. Have the volunteers begin snack preparations by cutting up the fruit and setting up the snack for when the children return.
25 Minutes	<p>The Children have snack: Make Yogurt Parfaits-see recipe on next page.</p> <div style="text-align: right;">  </div> <p>Read the book: The Grapes of Math Ask questions that accompany book.</p>

	<p>When parents pick up their child(ren), have them sign the attendance sheet.</p> <p>Tidy up.</p>
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Yogurt Parfait



Materials:

Plastic clear cups, spoons,

Ingredients:

Vanilla yogurt, frozen raspberries, peaches, mixberries, etc. granola (box without nuts), fresh bananas or berries for the top.

Directions:

1. Start with 1-1/2 to 2 tablespoons of granola in the bottom of a clear plastic cup.
2. Place a layer of yogurt about 3 tbsp
3. Place a layer of mixed fruit, another layer of yogurt and top with fruit and a little more granola.
4. Have students see the pattern, count the fruit they use and measure the yogurt and granola

Workshop 4

The theme for the parents' this evening is "Problem Solving".

5 Minutes	<p>Attendance: Give out t-shirt when parents sign in. Help the children find their Name Tag and ID card. The children will wear the ID cards each night during the program. They will be kept at school and they will earn a sticker for every night they attend.</p>
30 Minutes	<p>Welcome activity: Pen Pals. Give each child an index card. Tell them to write an addition or subtraction sentence on the card. Volunteers can help some of the younger students. Have the students use different manipulatives and strategies to answer the question. Show how you answered the question to the group, if they wish.</p> <p>Play math games. Have Volunteer pick a game that they want to play and teach to the children in small groups.</p> <p>Dice Game</p> <p>Play games with Volunteer</p> <ul style="list-style-type: none"> Get 5 Dice Game Monopoly Junior 20 Express Sequence Rush Hour
5 minutes for a washroom break	<p>Tidy up and be ready to join the parents. Washroom Break.</p> <p>Have a couple of volunteers get ingredients ready and set up on the tables in Rm. 103.</p> <p>Parent workshop will last 40 minutes.</p>
25-30 Minutes	<p>Children join their parents to create snack, Graduation Banana Splits. Take $\frac{1}{2}$ of the group to one room where they will make their snack. The other $\frac{1}{2}$ will play math game with parents. After 10 minutes, switch groups for the other half to make snack. Eat snack all together in Parent Group room.</p>
25 Minutes	<p>Once, snack is finished, play games with students and parents.</p>

	<p>Have parents fill out evaluations.</p> <p>Hand out certificates and give them the name cards without the lanyards.</p>
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Ice Cream Sundaes



Materials:

Spoons (double, one for child, one for parent and a few extra), plastic bowls, ice cream scoops, knife for cutting bananas

Ingredients:

Neapolitan Ice Cream (4 Litre), bananas, cherries, chocolate and butterscotch sauce, whip cream.

Directions:

1. Cut the bananas in quarters
2. Scoop out 1 to 2 scoops of ice cream and put in bowl with $\frac{2}{4}$ of the the banana
3. Pour chocolate or butterscotch sauce over the ice cream
4. Add 2-3 cherries and whipped cream
5. Discuss with students the fractions that occur and measuring of sauces
6. Encourage parents and students to celebrate their learning