

MULTILINGUAL ROXBURY PUBLIC SCHOOLS Crystal Nzegwu P-6 Supervisor of Math and Applied Sciences

MATH IS A UNIVERSAL LANGUAGE

No matter what your home language is, we all use math in our daily lives. Your language and culture are not a barrier to learning math—they are an asset.







MATH SHOWS UP IN EVERYDAY LIFE



- knitting
- embroidery

When your child sees you doing these things, they're learning math in meaningful, realworld ways. When you talk about these moments, in any language, you are reinforcing important math thinking.

• cooking a meal • measuring spices • dividing food • setting a timer • shopping at a market • comparing prices • counting change • calculating a sale woodworking



- your language and
 - culture are a
 - strength.





Like any skill, math is something we grow with practice and support.



MIGHT MY CHILD BE STRUGGLING WITH MATH?

- Your child may have strong math reasoning skills, but the language demands in the classroom can be a barrier.
- Word problems mix math, vocabulary, and reading comprehension together. They may have to navigate:
 - unfamiliar words or sentence structures
 - new vocabulary such as "altogether," "difference," or "fewer."



MODEL PERSISTENCE AND PROBLEM SOLVING Let's try saying... Instead of saying...

I'm not good at math either.

Why are you solving the problem like that? That's not how I learned.







Let's figure it out together.

Can you teach me this strategy?



FAMILIES ARE NATURAL ROLE MODELS

Standards for Mathematical Practice (All Grades)

1. Make sense of problems and persevere in solving them.

2. Reason abstractly and quantitatively.

3. Construct viable arguments and critique the reasoning of others.

4. Model with mathematics.

5. Use appropriate tools strategically.

6. Attend to precision.

- 7. Look for and make use of structure.
- 8. Look for and express regularity in repeated reasoning.



FAMILY MATH TALK TIPS



"Math Talk" doesn't mean having formal math lessons at home. It simply means talking about math in your everyday life—asking questions, noticing patterns, thinking out loud, and inviting your child to explain their thinking.





- Math talk is about using language to build understanding.
- Math talk gives your child a chance to hear and use math language in both English and their home language, building confidence and deeper understanding.
- Remember: You don't need to know the answer. The goal is to think together.



Situation	Try
Homework	"What stra "Can you expl
Real Life	"How many "What
When Stuck	"What part "Can you d
Everyday Use	"Which "How many w

y Saying...

ategy did you use?" lain it in another way?"

/ more do we need?" do you notice?"

do you understand?" draw a picture of it?"

is a better deal?" vays can we make 10?"



EVERYDAY PLACES FOR MATH TALK



In the Kitchen:

- How many halves make a whole?

At the Store:

• If we double the recipe, how much do we need?

• Which brand is cheaper per ounce? • If we have \$10, what can we buy?





On a Walk:

- What shapes do you see?
- Let's count how many steps from here to the corner.

In the Car:

- How long do you think it will take to get there?
- We left home at 9:45am. It takes 35 minutes to get to the mall. About what time will we arrive?

The key is to show that math is part of everyday life and that your child is capable of doing it.



WHAT IS NUMBER SENSE?

- Number sense is a child's ability to understand and play with numbers.
- Number sense includes skills like estimating, comparing, adding mentally, recognizing patterns, and breaking numbers apart in smart ways.
- Children with strong number sense are more confident problem solvers.
- Number sense grows through hands-on, real-life experiences.



EVERYDAY ACTIVITIES THAT BUILD NUMBER SENSE

Daily Task	Math Thinking
Setting the table	"How many forks do we need if
Folding laundry	"Can we sort by size or match
Grocery shopping	"If apples are \$2 per pound, how
Cooking/baking	"The recipe is for 4. We are 6—h
Walking to school	"How many steps from her
Cleaning up toys	"Can we group these into 5s or



Prompt

f we have 5 people?"

socks by pattern?"

w much for 3 pounds?"

low do we change it?"

e to the corner?"

10s to count faster?"





You don't need to buy anything fancy. Many games and materials you likely already have at home build number sense!

Games are a fun, low-pressure way to build fluency, flexibility, and joyful math habits.





GAMES THAT BUILD NUMBER SENSE

• Card games: Go Fish for 10, Don't Get Busted, Multiplication War, and more!



- Dice games: Roll and compare, Race to 100, Target Number, and more!
- Board games: Monopoly, Chutes & Ladders (number order), Yahtzee (strategy and totals)
- Mental math games in the car: "I'm thinking of a number between 30 and 50. It's a multiple of 5."





THANKS For MING QUESTIONS? CONTACT ME AT: cnzegwu@roxbury.org 973-584-2890 ext. 5021