# How To Support A Sprouting Mathematician

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## A Shift in Math Teaching

- Original Practices
- Common Core
- Next Generation Learning Standards
  - We teach students and standards/ not programs

#### Strategies in the Home

- Conceptual Meaning
  - Students make a model and actually understand what they are doing
- Categorize/Sort
  - Organize numbers
  - Multiplication/ division
- Break apart numbers
  - Compose/ decompose
- 10 is our friend
  - We always count up or down to 10
  - Easy to work with

### Good Questions to Ask Your Children

- How many is that? How many would you have if I gave you another one?
- What would half of that look like?
  - How could I split this equally?
- How do you predict how this will change over time?
- What is the chance of that happening?
- How many would you have if I doubled/ tripled the amount?
- Mystery number
  - I'm thinking of a number between \_\_\_\_\_ and \_\_\_\_\_
  - I'm thinking of a number that is 3 less than \_\_\_\_\_ more than \_\_\_\_\_

### Fun Ways to Incorporate Math in Your Home

- Read books with a math theme
  - Mouse Count by Ellen Stoll Walsh
  - Ten Apples on Top by Dr. Seuss
  - Inch by Inch Leo Lionni
  - Anno's Mysterious Multiplying Jar by Masaichiro and Mitsumasa Anno
  - The Greedy Triangle by Marilyn Burns
- Do projects with your child
  - Hanging lights, estimate how many boxes of lights you would need
  - Baking with your child
- Sidewalk chalk math
  - Draw shapes- spin in the circle/ hop to the triangle
  - Hopscotch by pattern/ skip could

#### Fun Ways to Incorporate Math in Your Home

#### Math outside

- Counting steps
  - Student walks and counts/ then parent walks and counts
- Number/ shape hunt
- Math inside
  - How much can certain jars hold- small objects/ large objects
  - Have 10 objects/ guess how many are in my hand
- Math at the grocery store
  - Heavy/ light- basket or shopping cart
  - Spacial- find the \_\_\_\_\_ above/ below- to the left of/ right of
  - How many people/ objects do you see over there
  - Which line will move faster and why-I wonder statements...

## Using Math Vocabulary at Home

#### Fractional language

- Half/thirds/ quarters- time and capacity
- Identify quantities as even/ odd/ prime/ composite
  - Snacks/toys
- Geometric Language
  - Perimeter
  - Rhombus rather than diamond/ parrallelogram/ pentagon