

Math at Home



Turning Everyday Moments into Learning Opportunities



Numeracy

- Alberta Education defines numeracy as the ability, confidence and willingness to engage with quantitative and spatial information to make informed decisions in all aspects of daily living.
- A numerate individual has the confidence and awareness to know when and how to apply quantitative and spatial understandings at home, at school, at work or in the community.



Magnetic Numbers and Counting on the Fridge

- Place magnetic numbers on the fridge and encourage your child to arrange them in order.
- Create simple math problems.
- Can be used for everything from practice counting to basic math facts and more!



Money Talks During Shopping

- Involve your child in shopping activities. Have them estimate the cost of items and compare it to the actual price.
- Discuss budgeting and involve your child in making decisions about purchases.



Estimation Games

- Play estimation games at home. For example, estimate how many toys are in a jar or how many steps it takes to walk from one room to another.
- Involve your child in real-world measurements, such as estimating ingredient quantities while cooking.
 - Which of these two containers do you think will fit more of the pasta noodles in it?
 - How many Legos do we need to put together to build a tower as tall as you? As me?
 - How many more goldfish crackers do you have than me?



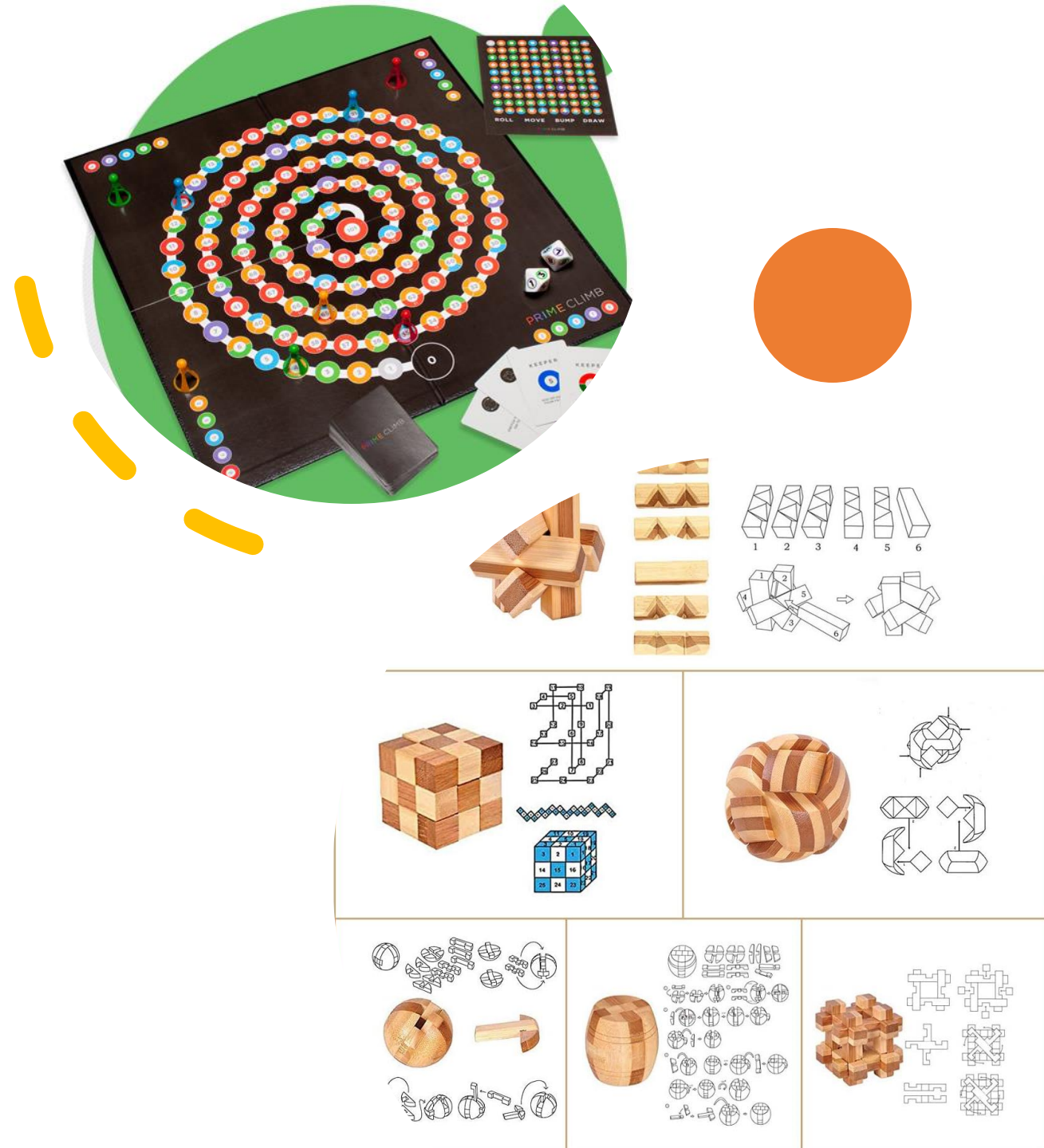
Number Talks in Everyday Situations

- Turn everyday activities into number talks. For instance, discuss time while setting a schedule or talk about distances and speed while traveling.
- Ask open-ended questions like "How many ways can we solve this problem?" to encourage different approaches to mathematical thinking.



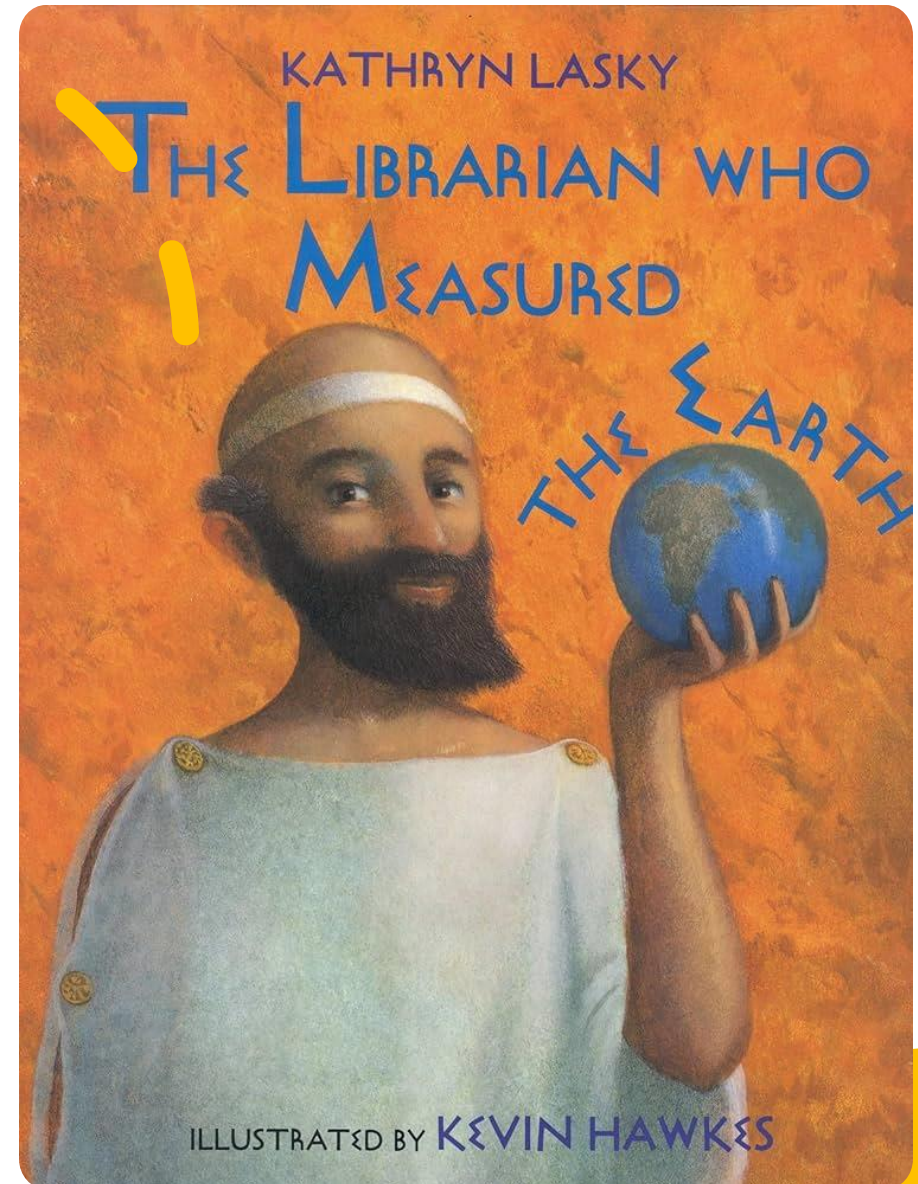
Board Games and Puzzles

- Play board games that involve counting, strategy, and problem-solving.
- Solve puzzles together, as they often require spatial and numerical reasoning.



Math Story Time

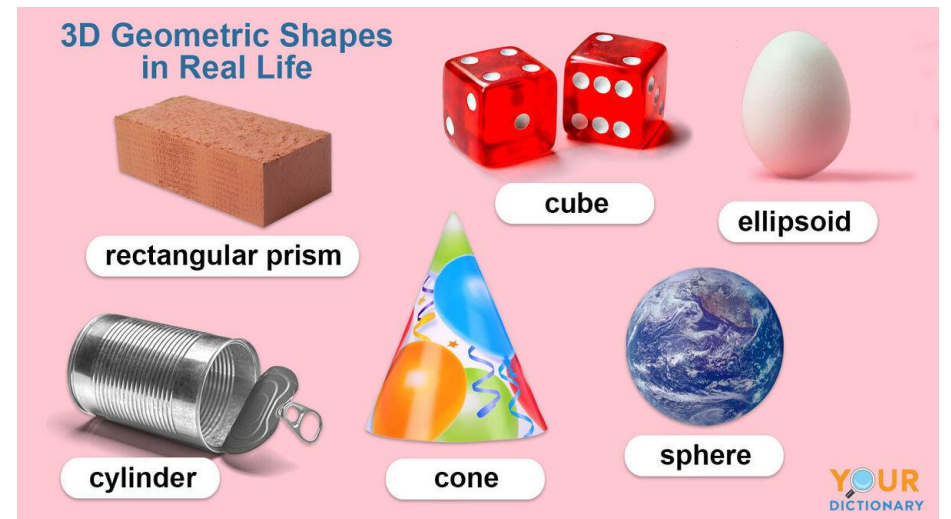
- Incorporate math into story time. Choose books that involve counting, patterns, or spatial relationships.
- Create your own math stories or scenarios and encourage your child to come up with their own.



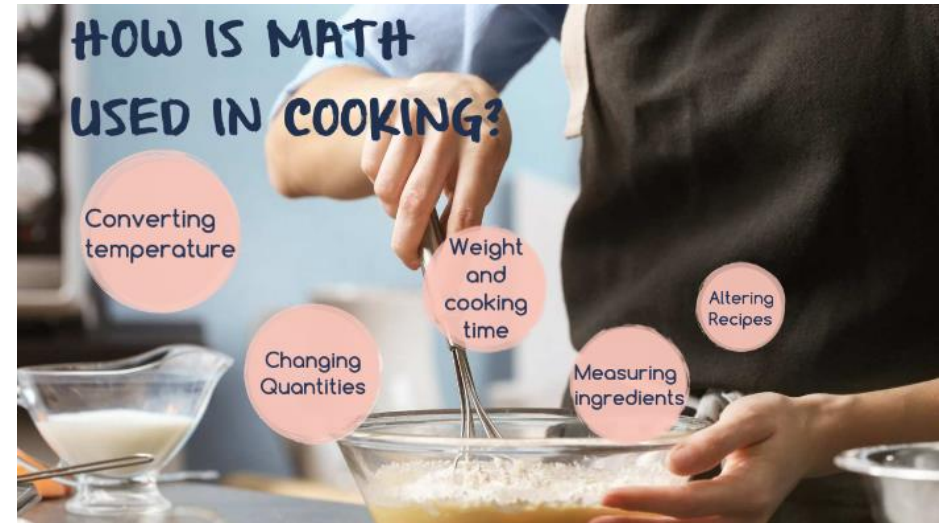
Geometry in Everyday Objects



- Point out geometric shapes in the environment, such as rectangles in doors or circles in wheels.
- Play with building blocks or tangrams to explore spatial relationships and geometry.



Cooking as a Math Lesson



- Involve your child in cooking and baking. Discuss measurements, fractions, and ratios while following recipes.
- Encourage them to scale recipes or double/halve ingredient quantities.

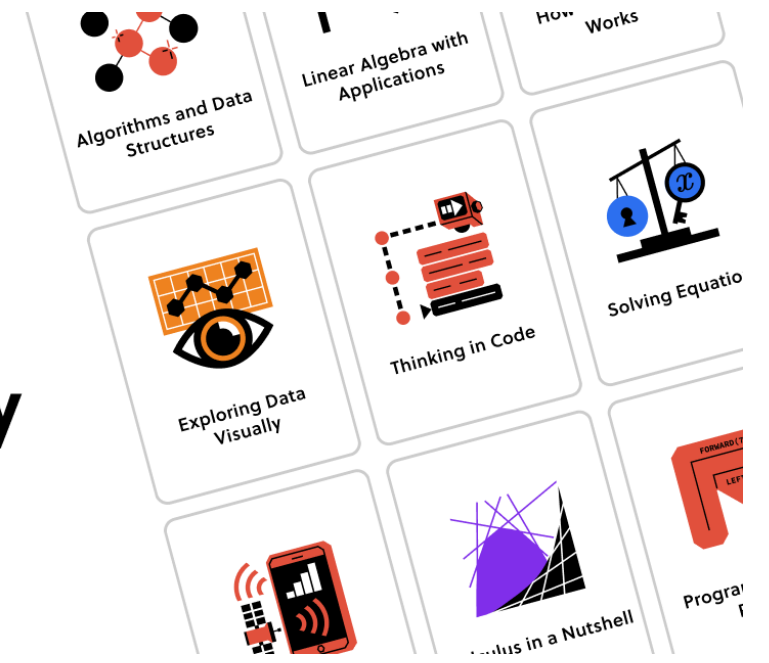


Math Games Apps

- Use educational apps that focus on numeracy skills. Many apps provide interactive games that make learning math fun.
- Minecraft, Dreambox, and Brilliant are all great apps that will help children develop math skills in a fun and interesting way.



 BRILLIANT
**Learn
interactively**



Asking Good Math Questions

- Instead of providing answers, ask your child open-ended questions that promote critical thinking and problem-solving.
- Encourage them to explain their reasoning and discuss different approaches to solving problems.
- Two rules of thumb
- Rule 1: Try to understand your child's thinking.
- Rule 2: Build on what your child knows.
 - Question 1: What do you notice?
 - Question 2: How did you figure that out?
 - Question 3: How can you show your thinking?
 - Question 4: Do you see any patterns?



<https://www.mathlearningcenter.org/blog/helping-home-asking-questions>

Math at Home

- By integrating these activities into everyday life, parents can create a math-rich environment that fosters numeracy skills in a natural and enjoyable way.

