



# MATH

# PK

FOR FAMILIES

**YOU ARE** your child's first teacher. Learn how to support the goals of Oklahoma's academic standards and why they are important for your child. Please be in regular communication with your child's teachers and ask how you can support math learning at home. When schools and families work together as partners, it helps your child achieve academic excellence!

## PRE-KINDERGARTEN

### What to expect:

Learning is particularly important in Pre-K because at this age, children have a natural curiosity about the world around them and a willingness to learn and be taught.

Take advantage of this natural curiosity by encouraging them to make guesses, use their reasoning skills and solve problems. Pre-K-aged children are developmentally ready to learn mathematical concepts like quantity, patterns, measurement and data.

This information is a snapshot of learning in Pre-K mathematics. For a complete set of mathematics academic standards, click [here](#) or visit [sde.ok.gov/oklahoma-academic-standards](http://sde.ok.gov/oklahoma-academic-standards).

### By the end of the school year, your child will:

- Know number names and be able to count to 20.
- Count the number of objects in a group up to 10.
- Recognize and duplicate patterns such as red, yellow; red, yellow; red, yellow.
- Identify common shapes.
- Compare two objects.
- Describe, sort and compare real-world objects.

### What to do at home:

- Count common household objects (toys, coins, lamps, etc.).
- Create simple patterns with sounds, movements and everyday objects, such as snap, clap; snap, clap; snap, clap.
- Identify circles, squares, rectangles and triangles from everyday life.
- Identify groups of objects as same or different and as more or less.



# MATH

## FOR FAMILIES

### Fostering Curiosity

Children are naturally curious and motivated to learn about things that interest them. Since curiosity contributes to success in the classroom, it is important to encourage it at home. Play is a wonderful way to nurture curiosity in young children, so be sure to allow plenty of playtime. Encourage your child to ask questions, discover answers and explore the world.

Cultivate your child's curiosity with guiding questions like these:

- When you look around, do you see things that are alike or different?
- What do you see when you look outside?
- What do you like to do?

Your child will have plenty of questions. It's okay if you don't have the answer every time. The best response is always, "Let's find out together."

### Fostering Communication

Increase vocabulary, thinking skills and curiosity by using new words and having conversations that include questions that make your child think. Communicating with others gives children a chance to see and understand that there can be more than one idea on a given subject. Accepting these different ideas helps children learn how to get along with others. This acceptance fosters positive relationships with peers and strong self-image.

Cultivate your child's communication skills with questions like these:

- What fruit would you like to eat for lunch?
- Do you think you will need a jacket today?
- What was the best part of the day and why?
- How did you help someone today?

### Fostering Comprehension

It is important to give young children the opportunity to explore books. As you sit down to read together, allow your child to flip through the pages and discuss what he or she sees. Use the following questions as a guide as you talk about the books you are reading together.

#### BEFORE READING

- What do you see on the cover?
- What do you think the book will be about?

#### DURING READING

- Who is in the book?
- What has happened so far?

#### AFTER READING

- Did you like reading this book? Why or why not?
- What was your favorite part of the book?



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## KINDERGARTEN

### What to expect:

Kindergarten is when children begin to grow academically, socially and emotionally in a structured learning environment. Families play an important role in that growth as they model positive learning behaviors and become involved in school activities. Kindergartners begin to understand concepts that will become the building blocks for success in mathematics in later grades. The concepts that will form these building blocks are quantity, patterns, measurement and data. Explore these concepts through hands-on activities and by talking to children about what they notice and wonder about.

This information is a snapshot of learning in kindergarten mathematics. For a complete set of mathematics academic standards, click [here](#) or visit [sde.ok.gov/oklahoma-academic-standards](http://sde.ok.gov/oklahoma-academic-standards).

### By the end of the school year, your child will:

- Count numbers in order to 100 by 1's and 10's.
- Separate a small group of objects into at least two equal sets.
- Identify pennies, nickels, dimes and quarters.
- Recognize, duplicate and extend patterns.
- Arrange up to 6 objects according to lengths.
- Use smaller shapes to form a larger shape.

### What to do at home:

- Give children a group of objects and ask them to separate the objects into two equal groups.
- Say a number up to 10 and ask your child to tell you the number one more or one less than the original number.
- Collect random objects and then ask your child to sort them into groups based on color, size and shape.
- Ask your child to identify, name and describe shapes from inside your house, outside and in other familiar places.



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### Fostering Curiosity

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Cultivate your child's curiosity with guiding questions like these:

- What do you wonder about?
- What patterns do you see when you look outside?
- What book do you want to read today?

Your child will have plenty of questions. It's okay if you don't have the answer every time. The best response is always, "Let's find out together."

### Fostering Communication

Increase vocabulary, thinking skills and curiosity by using new words and having conversations that include questions that make your child think. Communicating with others gives children a chance to see and understand that there can be more than one idea on a given subject. Accepting these different ideas helps children learn how to get along with others. This acceptance fosters positive relationships with peers and strong self-image.

Cultivate your child's communication skills with questions like these:

- What is your favorite food and why?
- What rule have you followed today?
- What do community helpers do for people?
- How did you help someone today?

### Fostering Comprehension

Kindergartners are developing beginning reading skills and an enjoyment of reading. Make time to explore books, magazines and other types of print with them and encourage conversations as you read together. Use the following questions to help your child better understand what he or she is reading.

#### BEFORE READING

- What do you think this book is about?
- What does this book remind you of?

#### DURING READING

- What do you think will happen next?
- Where and when does the story take place?

#### AFTER READING

- What happened in the beginning, middle and end?
- What was your favorite part of the book and why?



# MATH

# 1

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## FIRST GRADE

### What to expect:

In first grade, children become more independent. Their counting skills will improve, and they will begin to learn addition and subtraction.

As first-graders use math tools, ask questions and develop problem-solving strategies, they gain a deeper understanding of mathematical ideas by working in a classroom group, smaller groups and independently.

This information is a snapshot of learning in first-grade mathematics. For a complete set of mathematics academic standards, click [here](#) or visit [sde.ok.gov/oklahoma-academic-standards](http://sde.ok.gov/oklahoma-academic-standards).

### By the end of the school year, your child will:

- Count forward from any number up to 100 by 1's, 2's, 5's and 10's.
- Solve addition and subtraction problems up to 10.
- Identify coins and their values.
- Create and complete repeating and growing patterns.
- Identify trapezoids and hexagons.
- Tell time to the hour and half-hour.

### What to do at home:

- Ask your child what time it is.
- Hand your child a few coins of the same value and ask for the combined amount.
- Create math problems together about things happening at home. For example: "We started dinner with 6 pieces of bread but have eaten 3. How many are left?"
- Identify patterns found in the real world. For example, "The clock chimes once at one o'clock and twice at two o'clock, so what will happen at three o'clock?"
- Separate objects into equal groups. For example: Cut a pizza into slices so every family member has the same number of slices.



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### Fostering Curiosity

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Cultivate your child's curiosity with guiding questions like these:

- What are you interested in knowing more about?
- What else does that make you think of?
- Where do you think we can learn more about these things?

Your child will have plenty of questions. It's okay if you don't have the answer every time. The best response is always, "Let's find out together."

### Fostering Communication

Increase vocabulary, thinking skills and curiosity by using new words and having conversations that include questions that make your child think. Communicating with others gives children a chance to see and understand that there can be more than one idea on a given subject. Accepting these different ideas helps children learn how to get along with others. This acceptance fosters positive relationships with peers and strong self-image.

Cultivate your child's communication skills with questions like these:

- Who did you play with today? What did you play?
- What was your hardest rule to follow today? Why was it hard?
- What was your favorite part of the day and why?
- Can you tell me an example of kindness you saw or showed today?

### Fostering Comprehension

First-graders who are on their way to becoming independent readers need time to read alone and with others. Families should take time to talk about books, magazines and other types of print with young readers. Use the following questions to help your child better understand what he or she is reading.

#### BEFORE READING

- What do you think this book is about?
- What do you think will happen?
- Why did you pick this book?

#### DURING READING

- What has happened so far?
- What do you think will happen next?
- Where and when does the story take place?

#### AFTER READING

- What happened in the beginning, middle and end?
- What did you learn from the book?
- Does it remind you of any other books you have read?

Join the conversation!

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# MATH

# 2

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## SECOND GRADE

### What to expect:

In second grade, children are developing their math skills by applying new knowledge to what they already know. They are learning how to make a plan for solving a problem by trying different approaches when the problem seems difficult or they do not know the solution.

At this age, children begin to understand how numbers and tools come together to create learning experiences. They can now explain how to solve a problem and why the solution works.

This information is a snapshot of learning in first-grade mathematics. For a complete set of mathematics academic standards, click [here](#) or visit [sde.ok.gov/oklahoma-academic-standards](http://sde.ok.gov/oklahoma-academic-standards).

### By the end of the school year, your child will:

- Read and write numbers to 1,000.
- Add and subtract one- and two-digit numbers.
- Create and describe growing and shrinking patterns of shapes and numbers.
- Read and write time on a traditional and digital clock.
- Write and illustrate fractions for halves, thirds and fourths.
- Use a ruler to measure lengths to the nearest inch and centimeter.

### What to do at home:

- Create math problems about things happening at home. For example: "We started dinner with 10 slices of pizza but have eaten 3, so how many are left?"
- Determine the value of coins up to one dollar.
- Write two different three-digit numbers on a piece of paper and ask your child which one is greater or less than.
- Ask your child to tell you what time it is.
- Practice using a ruler to measure household items.



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### Fostering Curiosity

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Cultivate your child's curiosity with guiding questions like these:

- What do you notice or wonder about in your community?
- What new words or new things have you discovered?
- How can you solve the problems you see?

Your child will have plenty of questions. It's okay if you don't have the answer every time. The best response is always, "Let's find out together."

### Fostering Communication

Increase vocabulary, thinking skills and curiosity by using new words and having conversations that include questions that make your child think. Communicating with others gives children a chance to see and understand that there can be more than one idea on a given subject. Accepting these different ideas helps children learn how to get along with others. This acceptance fosters positive relationships with peers and strong self-image.

Cultivate your child's communication skills with questions like these:

- If you switched places with your teacher tomorrow, what would you teach the class?
- What was the best thing that happened today? What was the worst?
- Did you learn something that challenged you today or was there something you didn't understand?

### Fostering Comprehension

As second-graders continue to strengthen their reading skills, they benefit from reading independently and with adults. Exposing them to a variety of print materials such as books, magazines, etc., allows them to explore new words and ideas. Use the following questions to help your child better understand what he or she is reading.

#### BEFORE READING

- What do you think this book is about?
- What do you think will happen?
- What kind of book is this?

#### DURING READING

- What do you think will happen next?
- Where and when does the story take place?
- What do you notice about the characters?

#### AFTER READING

- Why do you think the author wrote this book?
- What happened in the beginning, middle and end?
- What was your favorite part of the book?

Join the conversation!  
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