

# Arkansas State Math Standards

*Grade 3 Math Pacing Guide*

|                                     |  |
|-------------------------------------|--|
| 1st 9-weeks<br>weeks 1-5            | Unit 1 Introducing Multiplication<br>Adaptation Lessons: • Grade 3 Unit 1 • Section B Lessons 1-10 • Grade 3 Unit 1 • Section B Lessons 1-10<br>3.GM.3, 3.GM.4, 3.GM.5, 3.GM.6, 3.GM.7, 3.GM.8, 3.GM.9   |
| 1st & 2nd<br>9-weeks<br>weeks 6-9   | Unit 2 Area and Multiplication<br>Adaptation Lessons: • Grade 3 Unit 2 Section B Lessons 1-10<br>3.GM.3, 3.GM.4, 3.GM.5, 3.GM.6, 3.GM.7, 3.GM.8, 3.GM.9, 3.GM.10, 3.GM.11, 3.GM.12   |
| 2nd 9-weeks<br>weeks 10-14          | Unit 3 Wrapping up Addition and Subtraction within 1,000<br>Adaptation Lessons: • Grade 3 Unit 3 Section B Lessons 1-10<br>Before Section B: • Grade 3 Unit 3 Section C Lessons 1-10 Before Section C: • Grade 3 Unit 3 • Section B Lessons 1-10<br>3.NP.3, 3.NP.4, 3.CAR.3, 3.CAR.4   |
| 2nd & 3rd<br>9-weeks<br>weeks 15-19 | Unit 4 Relating Multiplication to Division<br>No Adaptation Lessons for unit 4.<br>3.CAR.3, 3.CAR.4, 3.CAR.5, 3.CAR.6, 3.CAR.7, 3.CAR.8, 3.CAR.9, 3.CAR.10, 3.CAR.11, 3.CAR.12   |
| 3rd 9-weeks<br>weeks 20-23          | Unit 5 Fractions as Numbers<br>Before Section A of the current unit, add in:<br>• Grade 3 Unit 5 Section B Lessons 1-10<br>3.NP.3, 3.NP.4, 3.NP.5, 3.NP.6, 3.NP.7, 3.NP.8, 3.NP.9, 3.NP.10, 3.NP.11, 3.NP.12   |
| 3rd-4th<br>9-weeks<br>weeks 24-27   | Unit 6 Measuring Length, time, Liquid Volume, and Weight<br>Adaptation Lessons: • Grade 3 Unit 6 • Section B Lessons 1-10<br>• Section B Lessons 1-10 • Section C Lessons 1-10<br>Before Section C of the current unit, add in: • Grade 3 Unit 6 Section C Lessons 1-10<br>3.GM.3, 3.GM.4, 3.GM.5, 3.GM.6, 3.GM.7, 3.GM.8, 3.GM.9, 3.GM.10, 3.GM.11, 3.GM.12 |
| 4th 9-weeks<br>weeks 28-32          | Unit 7 Two-dimensional Shapes and Perimeter<br>Adaptation Lessons: Before Section A of the current unit, add in: • Grade 3 Unit 7 Section A Lessons 1-10<br>3.GM.3, 3.GM.4, 3.GM.5, 3.GM.6, 3.GM.7, 3.GM.8, 3.GM.9, 3.GM.10, 3.GM.11, 3.GM.12  |

Standards not covered in IM curriculum: 3.NP.3, 3.NP.4  
 The only Power Standard in ATLAS are highlighted  
 Standards that need to be addressed 1st semester: 3.GM.10, 3.GM.4, 3.GM.3, 3.GM.1

**Arkansas State Math Standards** are essential guidelines that shape the mathematics education curriculum across the state. These standards aim to ensure that students from kindergarten through high school develop a strong foundation in mathematical concepts, problem-solving skills, and analytical thinking. By establishing clear expectations for what students should know and be able to do at each grade level, Arkansas seeks to prepare its students for college, careers, and life in an increasingly complex and data-driven world.

## Overview of Arkansas State Math Standards

The Arkansas State Math Standards are designed to align with the Common Core State Standards (CCSS) while also incorporating local needs and educational priorities. These standards provide a framework for educators to develop curriculum, instructional strategies, and assessments that foster mathematical understanding and proficiency.

The state math standards encompass various domains of mathematics, including:

- Number and Operations: Understanding numbers, their relationships, and operations.
- Algebra: Analyzing patterns, relationships, and functions.
- Geometry: Understanding shapes, their properties, and spatial reasoning.
- Measurement: Applying concepts of measurement and estimation.
- Data Analysis and Probability: Collecting, analyzing, and interpreting data.

# Structure of the Standards

The Arkansas State Math Standards are structured across grade levels, from kindergarten through high school. The standards are further divided into content standards and practice standards.

## Content Standards

The content standards provide specific mathematical topics and skills that students are expected to learn at each grade level:

- Kindergarten to Grade 5: Focus on foundational skills such as addition, subtraction, multiplication, division, and an introduction to fractions and decimals.
- Grade 6 to Grade 8: Emphasis on more complex operations, ratios, percentages, and the introduction to algebraic expressions and equations.
- High School: Students delve into advanced topics such as functions, statistics, probability, and calculus.

## Practice Standards

The practice standards outline the skills and habits of mind that students should develop to become proficient in mathematics:

1. Problem Solving: Ability to solve complex and non-routine problems.
2. Reasoning and Proof: Justifying conclusions and constructing viable arguments.
3. Communication: Effectively communicating mathematical ideas and reasoning.
4. Connections: Relating mathematics to other disciplines and real-world contexts.
5. Representation: Using various representations to organize and understand mathematical ideas.

## Implementation of the Standards

The successful implementation of the Arkansas State Math Standards requires collaboration among educators, administrators, policymakers, and the community. To facilitate this process, the following strategies are often employed:

## Professional Development for Educators

Ongoing professional development is essential for teachers to effectively deliver the curriculum aligned with the state math standards. This includes:

- Workshops and training sessions focusing on innovative teaching strategies.

- Access to resources and materials that support the standards.
- Collaboration opportunities for educators to share best practices.

## **Curriculum Development**

Curriculum development teams work to create instructional materials and resources that align with the Arkansas State Math Standards. This can involve:

- Selecting textbooks and digital resources that are standards-aligned.
- Designing assessments that accurately measure student understanding.
- Incorporating technology and hands-on activities to enhance learning.

## **Assessment and Accountability**

Assessments play a critical role in measuring student progress and ensuring accountability. The following types of assessments are commonly used:

- Formative Assessments: Ongoing assessments that provide feedback during the learning process, allowing educators to adjust instruction as needed.
- Summative Assessments: End-of-unit or end-of-year assessments that measure student mastery of the standards.
- State Assessments: Standardized tests administered to evaluate student performance at the state level.

## **Challenges and Opportunities**

While the Arkansas State Math Standards provide a robust framework for mathematics education, challenges remain in their implementation and effectiveness. Some of these challenges include:

### **Equity in Access**

Ensuring that all students have access to high-quality mathematics instruction is a significant concern. Strategies to address this challenge include:

- Providing additional support and resources for underserved populations.
- Implementing targeted interventions for students who struggle with mathematics.

### **Engagement and Motivation**

Engaging students in mathematics can be challenging, particularly for those who may not

see the relevance of math in their daily lives. Opportunities to enhance engagement include:

- Incorporating real-world applications of math into the curriculum.
- Utilizing project-based learning to foster interest and excitement about the subject.

## **Integration of Technology**

The integration of technology into the mathematics curriculum can enhance learning experiences. Educators can leverage technology through:

- Interactive software and applications that provide personalized learning experiences.
- Online resources and platforms that offer additional practice and support.

## **The Future of Mathematics Education in Arkansas**

As Arkansas continues to refine and implement its state math standards, the focus will likely shift towards addressing emerging trends and challenges in mathematics education. Some potential areas of focus include:

- STEM Education: Emphasizing the importance of science, technology, engineering, and mathematics (STEM) in preparing students for the future workforce.
- Data Literacy: Teaching students how to interpret and analyze data effectively in a world increasingly driven by information.
- Social-Emotional Learning: Recognizing the importance of students' emotional well-being and resilience in their academic success, including mathematics.

## **Conclusion**

The Arkansas State Math Standards serve as a crucial framework for guiding mathematics education throughout the state. By setting clear expectations and promoting effective teaching and learning strategies, Arkansas aims to equip its students with the mathematical knowledge and skills necessary to thrive in an ever-evolving world. Through continued collaboration among educators, policymakers, and the community, the state can work toward ensuring that all students receive a high-quality mathematics education, paving the way for their future success.

## **Frequently Asked Questions**

### **What are the Arkansas State Math Standards?**

The Arkansas State Math Standards are a set of educational guidelines that outline the

mathematical knowledge and skills that students in Arkansas should acquire at each grade level.

## **How often are the Arkansas State Math Standards updated?**

The Arkansas State Math Standards are typically reviewed and updated every few years to ensure they remain relevant and aligned with educational best practices.

## **What grades do the Arkansas State Math Standards cover?**

The Arkansas State Math Standards cover all grades from kindergarten through 12th grade.

## **How do the Arkansas State Math Standards align with Common Core?**

The Arkansas State Math Standards are closely aligned with the Common Core State Standards, focusing on critical thinking and problem-solving skills.

## **What is the purpose of the Arkansas State Math Standards?**

The purpose of the Arkansas State Math Standards is to provide a clear framework for educators to develop curriculum and assessments that support student learning in mathematics.

## **What types of skills do the Arkansas State Math Standards emphasize?**

The Arkansas State Math Standards emphasize skills such as mathematical reasoning, problem-solving, and the ability to apply math concepts to real-world situations.

## **Are the Arkansas State Math Standards the same as the national standards?**

While the Arkansas State Math Standards are influenced by national standards, they are tailored specifically to meet the needs of Arkansas students and educators.

## **How can parents support their children in meeting the Arkansas State Math Standards?**

Parents can support their children by engaging in math-related activities, helping with homework, and communicating with teachers to understand the standards and expectations.

## Where can educators find resources related to the Arkansas State Math Standards?

Educators can find resources related to the Arkansas State Math Standards on the Arkansas Department of Education website, which offers curriculum guides, lesson plans, and assessment tools.

## What assessments are aligned with the Arkansas State Math Standards?

Assessments such as the Arkansas Comprehensive Testing, Assessment, and Accountability Program (ACTAAP) are aligned with the Arkansas State Math Standards to evaluate student performance.

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## Arkansas State Math Standards

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Explore the Arkansas state math standards and discover essential guidelines for effective math education. Learn more to enhance your teaching strategies today!

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