

Nys Common Core Math Curriculum

A

Subtract

Correct _____

1	$3 - 1 =$		23	$7 - 4 =$	
2	$13 - 1 =$		24	$17 - 4 =$	
3	$5 - 1 =$		25	$7 - 5 =$	
4	$15 - 1 =$		26	$17 - 5 =$	
5	$7 - 1 =$		27	$9 - 5 =$	
6	$17 - 1 =$		28	$19 - 5 =$	
7	$4 - 2 =$		29	$7 - 6 =$	
8	$14 - 2 =$		30	$17 - 6 =$	
9	$6 - 2 =$		31	$9 - 6 =$	
10	$16 - 2 =$		32	$19 - 6 =$	
11	$8 - 2 =$		33	$8 - 7 =$	
12	$18 - 2 =$		34	$18 - 7 =$	
13	$4 - 3 =$		35	$9 - 8 =$	
14	$14 - 3 =$		36	$19 - 8 =$	
15	$6 - 3 =$		37	$7 - 3 =$	
16	$16 - 3 =$		38	$17 - 3 =$	
17	$8 - 3 =$		39	$5 - 4 =$	
18	$18 - 3 =$		40	$15 - 4 =$	
19	$6 - 4 =$		41	$8 - 5 =$	
20	$16 - 4 =$		42	$18 - 5 =$	
21	$8 - 4 =$		43	$8 - 6 =$	
22	$18 - 4 =$		44	$18 - 6 =$	

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Lesson 19:

Model and use language to tell about 1 more and 1 less, 10 more and 10 less, and 100 more and 100 less.

Date:

8/7/13

engage^{ny}

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NYS Common Core Math Curriculum is an educational framework designed to enhance mathematics education in New York State. Launched in 2010, the Common Core State Standards (CCSS) were created to establish clear, consistent guidelines for what students should learn in mathematics at each grade level. The NYS Common Core Math Curriculum aims to prepare students for college and career readiness by ensuring they develop critical thinking, problem-solving skills, and a deep understanding of mathematical concepts. This article delves into the key components of the NYS Common Core Math Curriculum, its structure, implementation, and impact on students and educators.

Overview of the NYS Common Core Math Curriculum

The NYS Common Core Math Curriculum is based on a set of standards that outline the knowledge and skills students should acquire from kindergarten through high school. The curriculum prioritizes:

- Conceptual Understanding: Students are encouraged to understand mathematical concepts, not just memorize procedures.
- Procedural Fluency: Developing the ability to carry out mathematical procedures accurately and efficiently.
- Application: Using mathematics to solve real-world problems and engage in mathematical reasoning.
- Mathematical Practices: Fostering habits of mind that promote mathematical thinking.

Key Components of the Curriculum

The curriculum is built around several core components, which include:

1. Standards for Mathematical Practice: These eight practices describe the behaviors and skills that students should exhibit as they engage with math. They include:

- Making sense of problems and persevering in solving them.
- Reasoning abstractly and quantitatively.
- Constructing viable arguments and critiquing the reasoning of others.
- Modeling with mathematics.
- Using appropriate tools strategically.
- Attending to precision.
- Looking for and making use of structure.
- Looking for and expressing regularity in repeated reasoning.

2. Content Standards: The curriculum outlines specific content standards across various grade levels, including:

- Operations and Algebraic Thinking
- Number and Operations in Base Ten
- Number and Operations—Fractions
- Measurement and Data
- Geometry
- Statistics and Probability

3. Curriculum Modules: The New York State Education Department has developed curriculum modules that provide comprehensive units of study, including detailed lesson plans, assessments, and resources. These modules are designed to support teachers in delivering the curriculum effectively.

Implementation of the NYS Common Core Math Curriculum

The implementation of the NYS Common Core Math Curriculum involves collaboration among educators, schools, and districts. It requires ongoing professional development, resources, and

support to ensure that teachers can effectively deliver the curriculum.

Teacher Preparation and Professional Development

To ensure successful implementation, educators must be adequately prepared and supported. Key aspects include:

- Training Sessions: Regular workshops and training sessions are conducted to familiarize teachers with the curriculum, teaching strategies, and assessment practices.
- Collaboration: Teachers are encouraged to collaborate with colleagues to share best practices, resources, and experiences.
- Ongoing Support: Schools provide continuous support through instructional coaches and professional learning communities.

Classroom Resources

The NYS Common Core Math Curriculum provides various resources to enhance classroom instruction:

- Lesson Plans: Detailed lesson plans guide teachers in delivering content effectively.
- Assessment Tools: Formative and summative assessments help measure student understanding and progress.
- Online Resources: Digital platforms offer interactive tools, videos, and additional materials to support learning.

Impact on Students

The NYS Common Core Math Curriculum aims to improve student outcomes in mathematics. Its emphasis on deep understanding and problem-solving prepares students for real-world applications of math.

Student Engagement

One of the goals of the curriculum is to increase student engagement in mathematics. The use of real-world problems and applications encourages students to see the relevance of math in their everyday lives. This approach fosters a positive attitude toward learning and a desire to explore mathematical concepts further.

Assessment and Accountability

Assessment plays a critical role in the NYS Common Core Math Curriculum. The curriculum emphasizes:

- Formative Assessment: Ongoing assessments help teachers gauge student understanding and adjust instruction accordingly.
- Summative Assessment: Statewide assessments measure student proficiency and hold schools accountable for student learning.

Challenges and Criticisms

Despite its strengths, the NYS Common Core Math Curriculum has faced challenges and criticisms:

Implementation Difficulties

- Resource Allocation: Many schools struggle with inadequate resources or support for implementing the curriculum effectively.
- Professional Development: Not all teachers receive the necessary training or ongoing support to adapt to the new standards.

Standardized Testing Concerns

- Pressure on Students: High-stakes testing linked to the curriculum can create pressure on students, potentially leading to anxiety and disengagement.
- Equity Issues: Critics argue that standardized tests can disproportionately affect students from marginalized communities, raising concerns about fairness and equity.

Future Directions

The NYS Common Core Math Curriculum is continuously evolving. Education leaders are examining ways to enhance the curriculum and address the concerns raised by educators, parents, and students. Key areas of focus include:

- Integrating Technology: Incorporating technology into math instruction can enhance engagement and provide innovative learning opportunities.
- Differentiated Instruction: Developing strategies to meet the diverse needs of learners is crucial for ensuring all students can succeed.
- Community Involvement: Engaging parents and the community in the educational process can foster support for students' learning and growth.

Conclusion

The NYS Common Core Math Curriculum represents a significant shift in mathematics education, emphasizing understanding, problem-solving, and real-world applications. Despite facing challenges,

its implementation aims to prepare students for the demands of the 21st century. With ongoing support, collaboration, and a focus on equity, the curriculum has the potential to positively impact mathematics education in New York State for years to come. By fostering a deeper understanding of mathematical concepts and practices, educators can equip students with the skills necessary to thrive in an increasingly complex world.

Frequently Asked Questions

What is the NYS Common Core Math Curriculum?

The NYS Common Core Math Curriculum is a set of educational standards and guidelines developed to improve mathematics education in New York State, focusing on critical thinking, problem-solving, and real-world applications.

How does the NYS Common Core Math Curriculum differ from previous math curricula?

The NYS Common Core Math Curriculum emphasizes deeper understanding of mathematical concepts and skills, integrates more real-world applications, and encourages collaborative learning compared to previous, more rote-focused curricula.

What are the key components of the NYS Common Core Math Curriculum?

Key components include a focus on mathematical practices, conceptual understanding, procedural skills, and the application of mathematics to real-life situations, as well as a progression from grade to grade in complexity.

How are assessments structured under the NYS Common Core Math Curriculum?

Assessments include a mix of multiple-choice questions, constructed response questions, and performance tasks that assess students' understanding and application of mathematical concepts.

What resources are available for parents to support their children with the NYS Common Core Math Curriculum?

Parents can access resources such as the EngageNY website, which provides curriculum guides, sample problems, and instructional materials, as well as workshops and online forums for guidance.

Why is there controversy surrounding the NYS Common Core Math Curriculum?

Controversy arises from concerns about the difficulty of the standards, the effectiveness of assessments, and the pace of implementation, leading some parents and educators to question the overall impact on student learning.

How does the NYS Common Core Math Curriculum prepare students for future academic success?

The curriculum prepares students for future academic success by fostering critical thinking, analytical skills, and a strong foundation in mathematics, which are essential for college and career readiness.

What role do teachers play in implementing the NYS Common Core Math Curriculum?

Teachers play a crucial role by adapting their instructional strategies to meet the curriculum's standards, providing differentiated instruction, and continuously assessing student understanding to guide their teaching.

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Explore the NYS Common Core Math Curriculum with our in-depth guide. Discover strategies

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