Iowa Academic Standards for Mathematics Implementation Resources Guidebook

These resources are designed to support the planning and instruction processes for implementing the 2024 Iowa Academic Standards for Mathematics. The Department will continue to enhance the guidebook by incorporating new resources as they become available.

Resource	Description	Release/ Update Date
Iowa Academic Standards for Mathematics	This document outlines the Iowa Academic Standards for Mathematics, adopted in 2024. It includes the structure of domains, clusters, and standards, along with guidance for instructional focus and coherence. This document serves as the official reference for educators, curriculum designers, and administrators.	6/20/2025
Iowa Academic Standards for Mathematics Crosswalk	This crosswalk compares the 2024 Iowa Mathematics Standards with the 2010 standards, highlighting changes, additions, and removals. It helps educators and curriculum teams identify shifts in content and emphasis to support smooth implementation and instructional alignment.	8/4/2025
Iowa Academic Standards Spreadsheet version	This spreadsheet version of the Iowa Mathematics Standards provides a sortable, filterable view of the standards by grade, domain, cluster, and level of focus. Designed for planning and data analysis, this tool helps educators quickly locate and organize standards for instructional planning and curriculum mapping.	8/4/2025
Iowa Academic Standards for Mathematics Session 1: Structure Session 1 Screen Cast (15:23) Session 1 Slide Deck	This presentation provides a comprehensive examination of the mathematics standards framework, outlining its fundamental components and illustrating how they interconnect to form a cohesive understanding of mathematical concepts.	8/5/2025
Iowa Academic Standards for Mathematics Session 2: Focus Session 2 Screen Cast (16:38) Session 2 Slide Deck	This presentation discusses the first shift in mathematics instruction: focus. It emphasizes the importance of prioritizing instruction around clusters instead of isolated standards.	8/5/2025
Iowa Academic Standards for Mathematics Session: Coherence Session 3 Screen Cast (15:23) Session 3 Slide Deck	This presentation discusses the second shift in mathematical instruction: coherence. It highlights the importance of instruction that follows logical mathematical progress, building on prior knowledge.	8/5/2025
Iowa Academic Standards for Mathematics Session 4: Rigor Session 4 Screen Cast (18:10) Session 4 Slide Deck	This presentation discusses the third shift: rigor. It fosters understanding of the three foundations of rigorous mathematical instruction: conceptual understanding, procedural skill and fluency, and application.	8/5/2025
Iowa Academic Standards for Mathematics Session 5: How to Read the Standards Session 5 Screen Cast (9:19) Session 5 Slide Deck	This presentation guides educators in navigating and interpreting the mathematics standards document effectively. It empowers them with the skills to decipher its intricacies, ensuring a deeper understanding of the educational benchmarks that shape their teaching practices.	8/5/2025

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Iowa Academic Standards for Mathematics Session 6: Standards for Mathematical Practices Session 6 Screen Cast (10:04) Session 6 Slide Deck	This presentation will explore how the practice standards enable mathematically proficient students to engage with content, promote mathematical habits of mind that foster deep understanding, and support reasoning, communication, and problem-solving across all grades.	8/5/2025
Iowa Academic Standards for Mathematics Session 7: Effective Teaching Practice Session 7 Screencast (20:04) Session 7 Slide Deck	This presentation provides an overview of eight highly effective instructional practices in mathematics education, designed to enhance student understanding and engagement.	8/5/2025
Iowa Academic Standards for Mathematics Session 8: Grade Level Materials Session 8 Screen Cast (11:16) Session 8 Slide Deck	The presentation highlights how the Grade Level Materials in the Iowa Academic Standards for Mathematics offer support through specific standards, essential practices, and a clear overview. It includes an end-of-grade fluency table and content standards structured by the Front Matter guidelines for a cohesive approach to math education.	8/5/2025
Iowa Academic Standards for Mathematics Session 9: High School Session 9 Screen Cast (22:39) Session 9 Slide Deck	This presentation provides an overview of changes in the High School standards.	8/5/2025
K-12 Standards for Mathematical Practice posters	Printable and classroom-ready posters for the eight Standards for Mathematical Practice across K–12. Designed to promote student understanding and discussion of mathematical habits of mind, these posters are ideal for display and instructional reference	8/05/25
8 Effective Teaching Practices	A summary and reflection tool aligned to NCTM's 8 Effective Teaching Practices for mathematics. Useful for professional learning, lesson planning, or instructional coaching.	8/11/2024
Principles to Action: Self-Assessment	This self-assessment aligns with NCTM's *Principles to Actions* and helps educators reflect on and evaluate their implementation of effective mathematics teaching practices.	4/28/25
Model Pathways SCED Codes	This document provides recommended SCED (School Courses for the Exchange of Data) codes for Iowa's model high school mathematics pathways, helping schools align course offerings with state guidance and transcript reporting.	10/23/24
EdReports Adoption Steps	A step-by-step guide to using EdReports reviews to support high-quality instructional material adoption. It includes considerations for curriculum selection, piloting, and stakeholder engagement.	8/27/2024
Implementing with Integrity vs Fidelity	This document explains the difference between fidelity and integrity in instructional implementation, encouraging educators to adapt materials responsively while staying true to core learning goals.	8/26/2024
Visual Representations for Educator Learning and Instruction (K-6th Grade)	This resource offers visual tools and models to support conceptual understanding in grades K–6. It helps educators select and use effective representations during instruction and professional learning.	8/28/2025