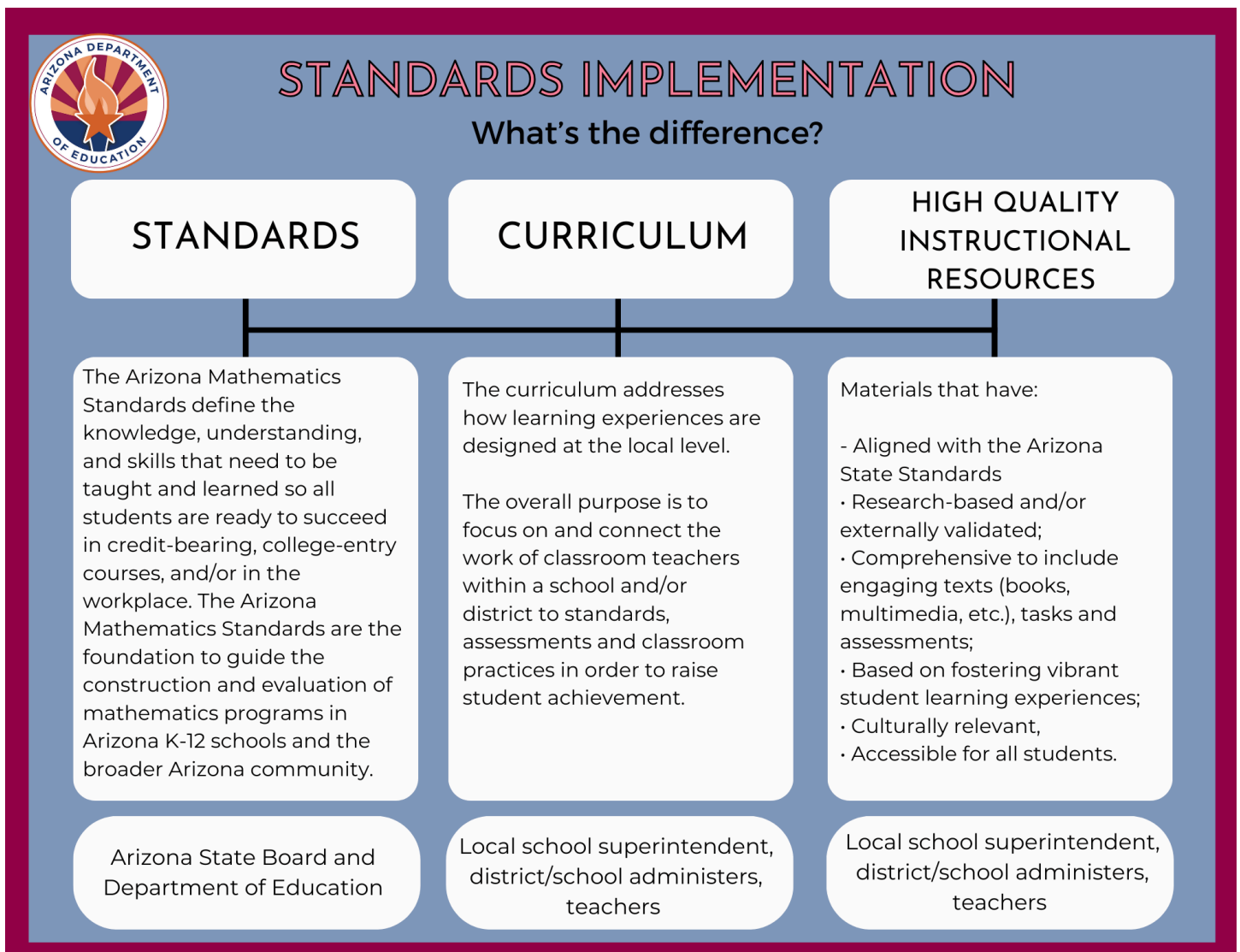


# High-Quality Instructional Materials for Mathematics Advisory Guide

**Purpose:** High-quality instructional materials are a key component to effective and engaging student learning experiences. Local education agencies (LEAs) and early learning facilities will have the autonomy to choose their own instructional materials. This document aims to support local decision-makers by providing resources to guide your decision-making.

- Stage 1: Review Standards**
- Stage 2: Choose Curriculum**
- Stage 3: Implementation Plan**



## Stage 1: Review Standards

When it comes to mathematics instruction, it is important that Arizona Mathematics Standards take priority over curriculum. Many curriculum companies designed national curriculum in alignment with Common Core State Standards. Below are reference documents which display the differences between Common Core State Standards adopted in 2010 and the Arizona updated Mathematics Standards in 2016. Arizona aligns with 70% of the common core.

Summary of Revisions & Planning Documents		
Grade	PDF	Word
Kindergarten (Updated 5.10.17)	<a href="#">pdf</a>	<a href="#">word</a>
First Grade (Updated 7.27.17)	<a href="#">pdf</a>	<a href="#">word</a>
Second Grade (Updated 7.27.17)	<a href="#">pdf</a>	<a href="#">word</a>
Third Grade (Updated 7.20.17)	<a href="#">pdf</a>	<a href="#">word</a>
Fourth Grade (Updated 7.20.17)	<a href="#">pdf</a>	<a href="#">word</a>
Fifth Grade (Updated 7.20.17)	<a href="#">pdf</a>	<a href="#">word</a>
Sixth Grade (Updated 8.16.17)	<a href="#">pdf</a>	<a href="#">word</a>
Seventh Grade (Updated 8.16.17)	<a href="#">pdf</a>	<a href="#">word</a>
Eighth Grade (Updated 3.28.17)	<a href="#">pdf</a>	<a href="#">word</a>
Algebra 1 (Updated 8.16.17)	<a href="#">pdf</a>	<a href="#">word</a>
Algebra 2 (Updated 5.1.17)	<a href="#">pdf</a>	<a href="#">word</a>
Geometry (Updated 8.16.17)	<a href="#">pdf</a>	<a href="#">word</a>

## Stage 2: Choose Curriculum

National Council of Teachers of Mathematics (NCTM)- [Curriculum Materials Matter: Evaluating the Evaluation Process](#)

<b>Curriculum Evaluation Tools</b>	
<p><b>National Council of Supervisors of Mathematics (NCSM)</b>  <a href="#">Materials Analysis Tools</a></p>	<p>This set of tools was developed by an NCSM-coordinated committee at the Council of Chief State School Officers (CCSSO) request. The tools are designed to assist K-12 textbook adoption committees, school administrators, and K-12 teachers in selecting mathematics curriculum materials that support the Common Core State Standards. The tools include a user's guide, tools for aligning to content, tools for aligning to the standards for mathematical practice, considerations for equity, assessment, and technology; and facilitator's materials.</p>
<p><a href="#">Instructional Materials Evaluation Tool (IMET)</a></p>	<p>Provided by Achieve the Core for grades K-8. This Math IMET is designed to help educators determine whether instructional materials are aligned with the Shifts and major features of the Common Core State Standards (CCSS).</p>
<p><a href="#">Math Change Management Playbook (Amplify Desmos Math)</a></p>	<p>Math Change Management Playbook: Navigating and sustaining the shift to a problem-based approach, is here to support educators in transforming how mathematics is taught, engaging all of our students in deeper, more enduring learning. That's what you'll find in this playbook: research highlights, checklists, look-fors, and other resources to reinforce your efforts at creating change that lasts—and changes lives.</p>
<p><a href="#">Materials Alignment Toolkit Portfolio</a></p>	<p>This toolkit was developed by partnering with Student Achievement Partners, Achieve, the Council of Chief State School Officers, and the Council of the Great City Schools. The toolkit includes a suite of tools:</p> <ul style="list-style-type: none"> <li>● IMET for evaluating the alignment of a comprehensive textbook or textbook series</li> <li>● GIMET-QR for evaluating the quality of instructional materials at each grade level</li> <li>● EQuIP quality review rubric for evaluating the alignment of lessons, units, and modules</li> <li>● EQuIP student work protocol for relating student work to the quality and alignment of materials</li> <li>● AET for evaluating the alignment of grade- or course-level assessment materials</li> <li>● CCSSO Principles for Aligning State Summative Assessments</li> <li>● Assessment passage and item quality criteria checklists to evaluate the alignment of assessment items and tasks</li> <li>● ELL framework for establishing a rigorous and coherent program to serve emerging bilingual students</li> </ul>

## Third-Party Reviews

<a href="#"><u>EdReports</u></a>	EdReports.org is an independent non-profit that publishes reviews of K-12 curriculum materials. EdReports.org assesses mathematics materials for focus and coherence, rigor and mathematical practices, alignment to content standards, and usability. Users of EdReports.org should become familiar with their methodology, not just their ratings, and understand that a resource's alignment to standards is not the same thing as evidence of student achievement.
<a href="#"><u>Evidence for ESSA</u></a>	The Evidence for ESSA website is produced by the Center for Research and Reform in Education (CRRE) at Johns Hopkins University and is funded by the Annie E. Casey Foundation. The site is similar to the What Works Clearinghouse but relies on a different set of studies meeting different criteria. Users of the Evidence for ESSA website should understand that the identification of evidence as "strong," "moderate," and "promising" is determined by the type of study (experimental, quasi-experimental, or correlational), not the size of the effect the program or materials have on student achievement.
<a href="#"><u>Louisiana Instructional Materials Reviews</u></a>	Although Arizona does not review instructional materials at the state level, other states do. Most notably, Louisiana conducts comprehensive reviews of materials and classifies them as Tier 1 (exemplifies quality), Tier 2 (approaching quality), and Tier 3 (not representing quality).

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## Stage 3: Implementation Plan

When implementing a new curriculum, focus on integrity instead of fidelity. There is no perfect curriculum that supports all Arizona State Standards, and there will be a need for supplementing the differences to ensure students receive instruction to all grade level standards.

<a href="#"><u>Curriculum Implementation Framework- Kentucky Department of Education</u></a>	The purpose of this resource is to provide a detailed roadmap for the three stages of curriculum implementation. The criteria in each phase are not intended to serve as a checklist. Instead, they are offered as considerations for district and school leaders to use for the purpose of developing more detailed implementation plans, with the ultimate goal of an improved, more vibrant student experience as outlined in the "Student(s)" column.
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