

## Inclusion of Nebraska Mathematics Standards in EdReports



*Because materials matter for all Nebraska students.*

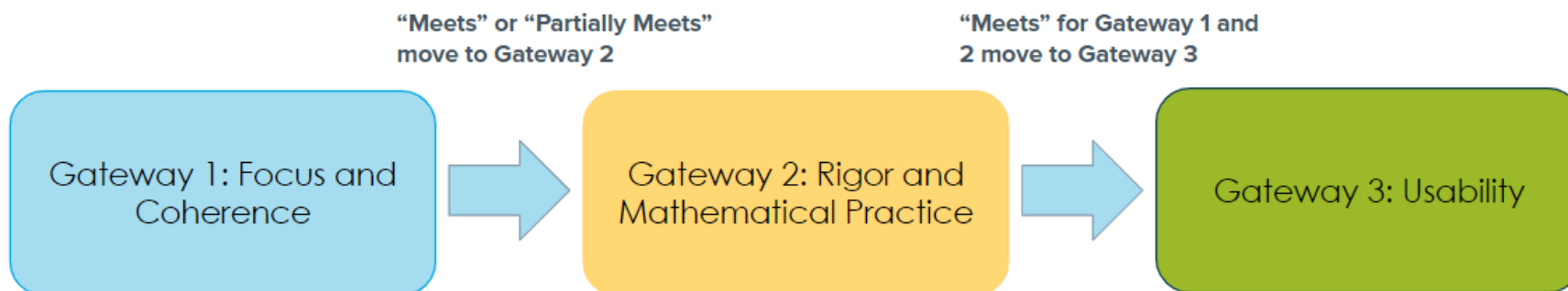
Content-area standards provide a framework for ensuring quality teaching and learning. Revisions and updates to [Nebraska content standards](#), per Nebraska Revised Statute 79-760.01, continue to require a number of key shifts that are essential to fulfilling the vision of Nebraska's College and Career Readiness (CCR) Standards for Mathematics. College and career readiness for Nebraska's K-12 students requires content area standards that are clearly defined and increasingly rigorous across grade levels. The 2022 revised mathematics standards encompass a wide range of essential skills across the strands of Number, Ratios and Proportions, Algebra, Geometry, and Data. The standards,

both individually and as an integrated whole, describe not only expectations for college and career readiness but also the 21st-century mathematical literacies for critical and innovative thinking and problem-solving. For K-12 mathematics instruction in Nebraska, the shifts remain: **focus** on fewer concepts, understand mathematics through **coherence**, and experience **rigorous** mathematical content.

These instructional shifts are also reflected in the [K-8 Mathematics Review Criteria](#) from EdReports. EdReports developed its tool to provide educators, stakeholders, and leaders with independent and useful information about the quality of instructional materials for classroom use. Expert educators use the tool to evaluate full sets of instructional materials in mathematics against evidence-based criteria.

The tool has three major gateways to guide the evaluation process. Reviewers apply the three gateways sequentially to ensure EdReports communicates to the field the extent to which materials are aligned and usable by educators. Along with the K-8 Mathematics Review Criteria, the [K-8 Mathematics Evidence Guides](#) provide educator reviewers with guidance to identify, collect, calibrate, and report on instructional materials aligned to the standards for mathematical content, the standards for mathematical practice, and the usability of the instructional materials. Those materials that meet or partially meet the expectations for Gateway 1 (**focus** and **coherence**) move to Gateway 2 (**rigor**, and mathematical practices). Only those materials that meet the expectations for both Gateway 1 and Gateway 2 move to Gateway 3 (usability).

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Because the Nebraska College and Career Ready Standards for Mathematics and the EdReports tool continue to share the instructional shifts of focus, coherence, and rigor, the reports provide a *strong starting point* for Nebraska districts, schools, and educators to use as a part of their materials selection process for K-8 mathematics. EdReports produces national reports, therefore there may be aspects of individual state standards not fully captured by EdReports.

**Gateway 1:** Focus and Coherence - While EdReports captures the majority of standards outlined in 2022 Nebraska's College and Career Ready Standards for Mathematics, there are some *language* and *content* variations at each grade level that are worth reviewing through an additional review. In reviews of instructional materials, review teams are encouraged to review materials through the lens of the NE 2022 math standards and identify any areas where additional supplemental materials may be needed. Below are key areas within the NE 2022 math standards, by grade band, that may not be captured in EdReports reviews.

Grade Band	Additional areas for consideration during NE materials reviews.
K-2	<p>NE Subitizing standards <i>explicitly</i> include <i>subitizing</i> in grades K-2.</p> <p>NE Kindergarten Measurement standard includes <i>capacity</i> in addition to weight and length.</p> <p>NE Time and Money standards begin in <i>Kindergarten</i>, rather than first grade.</p>

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	<p>NE Data Collection standard emphasizes the <i>formulation of questions</i> to collect, organize, and represent data beginning in first grade.</p> <p>NE 2nd grade Number and Algebraic Relationships standards emphasize the “<i>creation of authentic</i>” one-step addition and subtraction problems.</p>
3-5	<p>NE 3rd grade Numeric Relationships standards ask students to demonstrate and represent multi-digit numbers using place value understanding up to <i>10,000</i>, instead of up to 1,000.</p> <p>NE 3rd grade Operations and Algebraic Thinking standards specifically call for <i>identity and zero properties</i> as a strategy for multiplying and dividing.</p> <p>NE 3rd grade Data Collection standards <i>expand the data standards to include data collection methods</i>, including observations, surveys, experiments, and representation, calling for specific representations for line plots.</p> <p>NE 3rd and 4th-grade Measurement standards include <i>capacity</i> in addition to length, weight, mass, and liquid volume.</p> <p>NE 5th grade Analyze Data and Interpret Results standard includes additional solving of authentic problems using information presented in <i>one or more tables</i>.</p> <p>The NE 5th grade Shapes and Their Attributes standard includes specifications for identifying and describing faces, edges, and vertices of rectangular prisms.</p>
6-8	<p>NE 6th grade Analyze Data and Interpret Results standards in 6th grade include using information presented in <i>circle graphs</i> to solve problems in addition to dot plots, box-and-whisker plots, and histograms.</p> <p>NE 6th grade Probability standards include basic interpretation and applying concepts of probability, rather than beginning in 7th grade.</p>

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	NE 7th grade Data Collection and Statistical Methods standards include <i>identifying and critiquing biases</i> in various data representations.
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**Gateway 2:** Rigor and Mathematical Practice- The Nebraska Mathematical Process standards are represented throughout Gateway 2 within the Mathematical Practices (MP). The connections are outlined below. The Mathematical Practices standards capture most of the NE Mathematical Process standards. Instructional material review committees may find it valuable to review for a particular NE Mathematical Process standards using the EdReports reviews to the corresponding Mathematical Practice (MP) standard(s) as a starting point.

<b>Inclusion of NE Mathematics Process Standards in the EdReports reports</b>
Problem-Solving - EdReports MP 1 review
Reasoning - EdReports MP 2 review
Representations - EdReports MP 3, MP 4, MP 5 reviews
Connections - EdReports MP 1, MP 3, MP 4 reviews
Communications - EdReports MP 3 review

**Gateway 3:** All EdReports criteria and indicators apply and support the implementation of the NE College and Career Ready Standards for Mathematics. This gateway can be used in full to inform instructional material reviews.