

Common Core State Standards (CCSS) Comparison to KY Mathematics State Standards

The intent of this crosswalk is to enhance understanding of how the Common Core State Standards in mathematics compares with current expectations Kentucky has for students and to inform thinking about the implementation of the Common Core State Standards (CCSS).

As you begin your review of the comparison of the K-12 Common Core State Standards in mathematics to Kentucky's current Program of Studies (POS), you will notice that often a POS standard is repeated for more than one CCSS. This simply indicates that a given POS standard matched more than one CCSS. Also, a slight modification in notation for the POS standard is used. The key and an example follow to illustrate the coding and organization. The wording and punctuation of the KY POS standards are presented in their original form.

In this document, the POS standard will be displayed in the following way:

- an abbreviation of Kentucky (KY),
- the grade or grade span covered by the standard (K-3, 4, 5, 6, 7, 8, or 9-12),
- the Big Idea (N= Number Properties and Operations, M= Measurement, G= Geometry, D= Data Analysis and Probability, A= Algebraic Thinking),
- a code type of expectation (EU= Enduring Understanding or SC= Skill/Concept,
- then followed by the standard itself.

Example:

In the CCSS, **KY.K-3.A.EU.2** Students will understand that numerical patterns can be written as rules that generate the pattern. (This is Kentucky. Grade Span K-3. Algebraic Thinking. Enduring Understanding. bullet 2 which is the same as **MA-P-AT-U-2** as noted in the POS.)

Note that the Mathematical Practices developed in the Common Core State Standards are not included in this alignment document. However, they will serve as important elements of the conceptual framework for mathematics instruction in Kentucky.

The following Ratings Summary was used to indicate the degree of match (DM) for each of the current KY POS mathematics standards. Examining the strength of the match (excellent, good, weak) in various strands and at various grade levels and noting the CCSS that are not matched to KY POS standards may prove helpful in determining implications for the implementation of the CCSS.

Ratings Summary

3 = Excellent match means that concepts and skills addressed in the CCSS are also included in the state standards and expectations in both verb/performance and content/topic are equivalent. If the specificity is different, but the content and performance expectations are similar or if a state standard went beyond the expectations of the CCSS, a rating of 3 could be given.

2 = Good match means part of a compound state standard applies to the CCSS and part does not or minor aspects of the CCSS are missing (or addressed more broadly/generally than in the CCSS). The CCSS may use a different verb than the state standard, but if the content is similar then it could be rated a 2.

1 = Weak match means the major aspects of the CCSS are not addressed; standards may be related but only generally. A rating of 1 might indicate a skill that is a building block to the CCSS.

*Note: If the CCSS is compound and the state standard only addresses one of the expectations, the state standard would get a rating of 1 or 2.

The columns in the crosswalk document with the following labels indicate the grade-level differences between KY's POS standards and the Common Core State Standards:

G= grade-referring to the grade assigned by CCSS

MG=matched grade –referring to the grade level of the Program of Studies statement

GD=grade difference-referring to the difference, if any, between the G and the MG

A positive number in the Grade Difference column indicates that the standard appears in a lower grade level of the KY POS and has been moved to a higher grade level in the CCSS; a negative number in the Grade Difference column indicates that the standard appears in a higher grade level of the KY POS and has been moved to a lower grade level in the CCSS. *Note: If a POS standard is not matched, grade level differences between the Common Core State Standards and KY POS standards could not be considered.

- CCSS grade 7 matched to POS grade 6 would yield a 1
- CCSS grade 4 matched to POS grade 5 would yield a -1
- Grade spans such as K-3 and 9-12 could yield a range of values.

The high school common core standards specify the mathematics that all students should study in order to be college and career ready. Additional mathematics that students should learn in order to take advanced courses such as calculus, advanced statistics, or discrete mathematics is indicated by (+). These standards are considered to be beyond the “common core state standards.” The note indicates “beyond CCSS” for these standards.

Modeling is not considered to be a collection of topics taught in isolation. Modeling should be taught in relation to other standards. Specific modeling standards appear throughout the high school standards indicated by a star symbol (★) in the common core standards document and in this document by an asterisk (*).

Supporting standards and standards beyond common core standards are in regular font, not bold.

During this transition year, this crosswalk document comparing the Common Core State Standards in Mathematics with the current mathematics expectations in the Kentucky Program of Studies is offered to help

- inform instruction
- plan professional learning
- determine curriculum material needs.