

1 AN ACT relating to mathematics education.

2 ***Be it enacted by the General Assembly of the Commonwealth of Kentucky:***

3 ➔Section 1. KRS 158.791 is amended to read as follows:

4 (1) The General Assembly hereby finds that:

5 ***(a)*** Reading proficiency is a gateway skill necessary for all of Kentucky students
6 to achieve the academic goals established in KRS 158.6451. It is Kentucky's
7 goal that all children learn to read well before exiting grade three (3) and that
8 all middle and high school students have the skills necessary to read complex
9 materials in specific core subjects and comprehend and constructively apply
10 the information; ***and***

11 ***(b)*** ***Mathematics proficiency is essential for all Kentucky students to achieve the***
12 ***academic goals established in KRS 158.6451. It is Kentucky's goal that all***
13 ***children have the skills necessary to demonstrate procedural skill and***
14 ***fluency, building from conceptual understanding to application, in order to***
15 ***solve real-world problems.***

16 (2) It is the intent of the General Assembly that:

17 (a) Every elementary school:

18 1. Provide comprehensive schoolwide reading ***and mathematics***
19 instruction aligned to reading, ~~and~~ writing, ***and mathematics*** standards
20 required by KRS 158.6453 and outlined in administrative regulation
21 promulgated by the Kentucky Board of Education;

22 2. Provide a multitiered system of supports, as set forth in and required by
23 KRS 158.305, to support and engage all students in learning to read at
24 the proficient level, meaning a level that reflects developmentally
25 appropriate grade-level performance, by the end of grade three (3);

26 3. ***Provide a multitiered system of supports, as set forth in Section 3 of***
27 ***this Act, to support and engage all students in learning to apply***

1 *mathematical content and practices at a proficient level, meaning a*
 2 *level that reflects developmentally appropriate grade-level*
 3 *performance, by the end of grade five (5);*

4 4. Ensure quality instruction *for reading and mathematics* by highly
 5 trained teachers and intervention by individuals most qualified to
 6 provide the intervention; and

7 5.~~[4.]~~ Provide high quality library media programs;

8 (b) Every middle and high school:

9 1. Provide direct, explicit instruction to students lacking skills in how to
 10 read, learn, and analyze information in key subjects, including language,
 11 reading, English, mathematics, science, social studies, arts and
 12 humanities, practical living skills, and career studies;~~[and]~~

13 2. Ensure that teachers have the skills to help all students develop critical
 14 *content knowledge*, strategies, and skills for subject-based reading *and*
 15 *grade-level appropriate mathematics*;

16 3. *Provide a multitiered system of supports, as set forth in Section 3 of*
 17 *this Act, to support and engage all students in learning to apply*
 18 *mathematical content and practices at a proficient level, meaning a*
 19 *level that reflects developmentally appropriate grade-level*
 20 *performance, by the end of grade eight (8); and*

21 4. *Ensure all students routinely have opportunities to experience high-*
 22 *quality mathematics instruction, learn challenging, grade-level*
 23 *appropriate mathematics content and practices, and receive the*
 24 *necessary support to make progress toward proficiency;*

25 (c) The Kentucky Department of Education *shall* provide technical assistance to
 26 local school districts in the identification of *high-quality* professional
 27 development~~[activities]~~, including teaching strategies to help teachers in each

1 subject area to:

2 1. Implement evidence-based reading, intervention, and instructional
3 strategies that emphasize phonemic awareness, phonics, fluency,
4 vocabulary, comprehension, and connections between reading and
5 writing acquisition, and motivation to read to address the diverse needs
6 of students;

7 2. Implement evidence-based mathematics instruction, intervention, and
8 instructional strategies that emphasize algebraic reasoning,
9 conceptual understanding, procedural skill and fluency, geometry,
10 data and measurement, statistics and probability, number sense, place
11 value understanding, spatial reasoning and subitizing for
12 multiplicative reasoning;

13 3. Identify and teach the grade-level content, practices, and skills that
14 students need to comprehend the concepts and content of each subject
15 area; and

16 4.~~3.~~ Use learning experiences~~[activities]~~ and high-quality instructional
17 materials that will help the students comprehend, meet grade-level
18 expectations, and constructively apply information based on the unique
19 content of each subject area;

20 (d) The Education Professional Standards Board shall review and revise when
21 deemed necessary the teacher certification and licensure requirements to
22 ensure that all teachers, regardless of the subject area taught, are prepared to
23 improve students' subject reading and mathematics skills; and

24 (e) The department shall collaborate with:

25 1. The Department for Libraries and Archives, the Governor's Office of
26 Early Childhood, and Kentucky Educational Television to establish and
27 maintain a partnership to support the use of high-quality, evidence-based

1 year-round programming, materials, and activities for elementary-aged
 2 children in the areas of reading; and

3 2. AdvanceKentucky, the Kentucky Center for Mathematics, and the
 4 Partnership Institute for Math and Science Education Reform to
 5 support educator access to high-quality, evidence-based professional
 6 learning, student engagement in grade-level learning aligned to
 7 Kentucky academic standards for mathematics, and leadership
 8 support networks for the purpose of increasing student outcomes in
 9 kindergarten through grade twelve (12) mathematics.

10 ➔Section 2. KRS 158.840 (Effective July 1, 2024) is amended to read as follows:

11 (1) The General Assembly hereby finds that reading and mathematics proficiency are
 12 gateway skills necessary for all Kentucky students to achieve the academic goals
 13 established in KRS 158.6451. It is the General Assembly's intent that:

14 (a) All students in kindergarten through grade three (3) having difficulty in
 15 reading and mathematics receive early diagnosis and intervention services
 16 from highly trained teachers;

17 (b) All students in grade four (4) through grade eight (8) needing to make
 18 accelerated progress toward proficiency in mathematics based on data from
 19 valid and reliable universal screening and diagnostic assessments receive
 20 high-quality, evidence-based mathematics instruction and intervention
 21 aligned to grade-level learning as established in the Kentucky academic
 22 standards for mathematics;

23 (c) All students demonstrate proficiency in reading and mathematics as they
 24 progress through the relevant curricula and complete each assessment level
 25 required by the Kentucky Board of Education for the state assessment
 26 program established under KRS 158.6453 and in compliance with the
 27 requirements of the federal Every Student Succeeds Act of 2015, Pub. L. No.

1 114-95, or its successor; and

2 ~~(d)(e)~~ Students who are struggling in reading and mathematics or are not at the
3 proficient level on statewide assessments ***shall*** be provided evidence-based
4 and developmentally appropriate diagnostic and intervention services, and
5 instructional modifications necessary to learn.

6 The General Assembly, the Kentucky Board of Education, the Kentucky
7 Department of Education, the Council on Postsecondary Education, colleges and
8 universities, local boards of education, school administrators, school councils,
9 teachers, parents ***and families***, and other educational entities, such as the Education
10 Professional Standards Board, ***the Commonwealth Education Continuum***~~[P-16~~
11 ~~councils]~~, the statewide reading research center established under KRS 164.0207,
12 and the Center for Middle School ***Academic*** Achievement must collaborate if the
13 intentions specified in this subsection are to be met. Intensive focus on student
14 achievement in reading and mathematics does not negate the responsibility of any
15 entity to help students obtain proficiency in other core curriculum content areas.

16 (2) The General Assembly's role is to set policies that address the achievement levels of
17 all students and provide resources for the professional growth of teachers and
18 administrators, assessing students' academic achievement, including ***valid and***
19 ***reliable universal screening and*** diagnostic assessment and instructional
20 interventions, technology innovations, targeted reading and mathematics statewide
21 initiatives, research and the distribution of research findings, services for students
22 beyond the regular school day, and other services needed to help struggling
23 learners.

24 (3) The Kentucky Board of Education shall regularly review and modify, when
25 appropriate, its statewide assessment policies and practices to enable local school
26 districts and schools to carry out the provisions of the statewide assessment and
27 accountability system, required under KRS 158.6453 to improve student

1 achievement in mathematics and reading.

2 (4) The Kentucky Department of Education shall:

- 3 (a) Provide assistance to schools and teachers, including publicizing professional
4 development opportunities, methods of measuring effective professional
5 development, the availability of high quality instructional materials, and
6 developmentally appropriate, valid, and reliable screening and diagnostic
7 assessments of student competency in mathematics and reading. The
8 department shall provide access to samples of units of study, annotated
9 student work, diagnostic instruments, and research findings, and give
10 guidance on parental engagement;
- 11 (b) Work with state and national educators and subject-matter experts to identify
12 student reading and mathematical skills in each subject area that align with
13 the state content standards adopted under KRS 158.6453 and identify teaching
14 strategies in each subject area that can be used explicitly to develop the
15 identified reading and mathematical skills under this paragraph;
- 16 (c) Encourage the development of comprehensive middle and high school
17 adolescent reading and mathematics plans to be incorporated into the
18 curricula of each subject area to improve the reading comprehension and
19 mathematical skills of all students;
- 20 (d) Conduct an annual review of the state grant programs it manages and make
21 recommendations, when needed, to the Interim Joint Committee on Education
22 for changes to statutory requirements that are necessary to gain a greater
23 return on investment;
- 24 (e) Provide administrative support and oversight to programs to train classroom
25 coaches and mentors to help teachers with reading and mathematics
26 instruction; and
- 27 (f) Require no reporting of instructional plans, formative assessment results, staff

1 effectiveness processes, or interventions implemented in the classroom,
2 except for:

- 3 1. Interventions implemented under KRS 158.305(2) **and Section 3 of this**
4 **Act;**
- 5 2. Funds provided under KRS 158.792 or 158.844; or
- 6 3. Schools that are identified for comprehensive support and improvement
7 and fail to exit comprehensive support and improvement status after
8 three (3) consecutive years of implementing the turnaround intervention
9 process as described in KRS 160.346.

10 (5) The Council on Postsecondary Education, in cooperation with the Education
11 Professional Standards Board, shall exercise its duties and functions under KRS
12 164.020 to ensure that teacher education programs are fulfilling the needs of
13 Kentucky for highly skilled teachers. The council shall:

14 (a) Coordinate the federal and state grant programs it administers with other
15 statewide initiatives relating to improving student achievement in reading and
16 mathematics to avoid duplication of effort and to make efficient use of
17 resources;

18 (b) **No later than November 1 of each year,** submit **an annual**^[a] report to **the**
19 **Legislative Research Commission for referral to** the Interim Joint Committee
20 on Education, ~~[no later than November 1 of each year]~~ summarizing the
21 compliance of each teacher preparation program for:

22 **1.** Interdisciplinary early childhood education or elementary regular
23 education to the instructional requirements set forth in KRS 164.306(1)
24 **and Section 4 of this Act; and**

25 **2. Middle school mathematics education set forth in Section 4 of this Act;**

26 and

27 (c) Regularly report program data to an external evaluator for an analysis of the

1 progress of teacher preparation programs for interdisciplinary early childhood
2 education, ~~and~~ elementary regular education, and middle school
3 mathematics education to increase the success of new teacher candidates in
4 demonstrating reading and mathematics instruction knowledge and skills.

5 (6) The Education Professional Standards Board shall exercise its duties and
6 responsibilities under KRS 161.030 and 161.048 to ensure highly qualified
7 teachers.

8 (7) Colleges and universities shall:

9 (a) Utilize institution-wide resources to work with elementary and secondary
10 educators and other entities to align curriculum content to ensure that students
11 who achieve proficiency on standards established at the prekindergarten
12 through secondary levels will require no remediation to successfully enter a
13 postsecondary education program;

14 (b) Provide quality undergraduate teacher preparation programs to ensure that
15 those preparing to teach reading or mathematics at all grade levels have the
16 necessary content knowledge, assessment and diagnostic skills, and teaching
17 methodologies and that teachers in all subject areas have the requisite skills
18 for helping students at all grade levels develop critical strategies and skills for
19 reading and comprehending subject matter;

20 (c) Deliver evidence-based ~~appropriate~~ continuing education opportunities for
21 teachers in reading and mathematics through institutes, graduate level courses,
22 and other professional development activities that support a statewide agenda
23 for improving student achievement in reading and mathematics;

24 (d) Conduct or assist with research on best practices in assessment, intervention
25 strategies, teaching methodologies, costs and effectiveness of instructional
26 models, and other factors as appropriate to reading and mathematics;

27 (e) Provide staff to consult and provide technical assistance to teachers, staff, and

- 1 administrators at elementary, middle, and secondary school sites;
- 2 (f) Assume active roles in the statewide initiatives referenced in KRS 156.553
- 3 and 158.842; and
- 4 (g) Develop written procedures for measuring the effectiveness of activities
- 5 outlined in paragraphs (a) to ~~(f)~~~~(e)~~ of this subsection.
- 6 (8) School councils at all school levels are encouraged to identify and allocate
- 7 resources to qualified teachers to become coaches or mentors in mathematics or
- 8 coaches or mentors in reading with a focus on improving student achievement in
- 9 their respective schools.
- 10 (9) Local school boards and superintendents shall provide local resources~~[, whenever~~
- 11 ~~possible,]~~ to supplement or match state and federal resources to support teachers,
- 12 school administrators, and school councils in helping students achieve proficiency
- 13 in reading and mathematics.
- 14 (10) Local school superintendents shall provide leadership and resources to the
- 15 principals of all schools to facilitate curriculum alignment, communications, and
- 16 technical support among schools to ensure that students are academically prepared
- 17 to move to the next level of schooling.

18 ➔SECTION 3. A NEW SECTION OF KRS CHAPTER 158 IS CREATED TO

19 READ AS FOLLOWS:

20 **(1) As used in this section:**

21 **(a) "Application" means learning to select an efficient method to find a**

22 **solution given a meaningful problem, determining whether the solution**

23 **makes sense by reasoning, and thinking critically;**

24 **(b) "Conceptual understanding" means connecting prior knowledge to new**

25 **ideas and concepts, and making sense of why a mathematical idea is**

26 **important and the kinds of contexts in which it is useful;**

27 **(c) "Dyscalculia" has the same meaning as in KRS 158.305;**

1 (d) "Enrichment program" means accelerated intervention within the school
2 day or outside of the school day or school calendar, led by individuals most
3 qualified to provide the intervention and specifically determined to address
4 the individual learning needs of students based on universal screening and
5 diagnostics assessments in mathematics. This includes evidence-based
6 mathematics instructional programming and other instructional content,
7 skills and strategies aligned to mathematics standards required by KRS
8 158.6453 and outlined in administrative regulations promulgated by the
9 Kentucky Board of Education;

10 (e) "Evidence-based" has the same meaning as in 20 U.S.C. sec. 7801(21);

11 (f) "Mathematics diagnostic assessment" has the same meaning as in Section
12 5 of this Act;

13 (g) "Mathematics improvement plan" means an accelerated intervention plan
14 for a student in grade four (4) through grade eight (8) that is developed to
15 increase a student's rate of progress toward proficient performance in
16 mathematics, that is identified as necessary based on the student's results on
17 an approved mathematics diagnostic assessment. This plan should be
18 developed in collaboration and accordance with any existing program
19 services plan, individualized education program, or Section 504 Plan as
20 defined in KRS 156.027, unless the program services plan, individualized
21 education program, or Section 504 Plan already addresses improving
22 mathematics;

23 (h) "Mathematics improvement team" means a team that develops and oversees
24 the progress of a mathematics improvement plan and includes:

25 1. The parents or guardians of the student that is the subject of the
26 mathematics improvement plan;

27 2. No less than one (1) regular education teacher of the student, to

1 provide information about the general curriculum for same-aged
2 peers;

3 3. A representative of the local education agency who is knowledgeable
4 about the mathematics curriculum and the availability of the evidence-
5 based mathematics resources of the local education agency; and

6 4. Any specialized certified school employees, including but not limited to
7 mathematics teachers, specialists or coaches, for students receiving
8 mathematics instruction educational programming or special
9 education services;

10 (i) "Number sense" means the ability to represent whole and rational numbers
11 in multiple ways, numerical magnitude estimation, selecting and using
12 benchmarks such as tens or hundreds, decomposing and recomposing
13 numbers, understanding the effects of operations on numbers, and
14 performing mental calculation and estimation;

15 (j) "Numeracy" has the same meaning as in Section 5 of this Act;

16 (k) "Place value understanding" means the understanding of representations
17 and concepts necessary to successfully process multi-digit numbers;

18 (l) "Spatial reasoning" means the capacity to mentally generate, transform,
19 and rotate a visual image and thus understand and recall spatial
20 relationships between objects;

21 (m) "Subitizing" means quickly recognizing and naming how many objects are
22 in a group without counting; and

23 (n) "Universal screener" means a process of providing a brief assessment to all
24 students within a grade level to assess the students' performance in
25 mathematical content and practices.

26 (2) Notwithstanding any other statute or administrative regulation to the contrary,
27 the board shall promulgate administrative regulations in accordance with KRS

1 Chapter 13A to further define a multitiered system of supports for district-wide
2 use of a system for students in grade four (4) through grade eight (8), that
3 includes a tiered continuum of interventions with varying levels of intensity and
4 duration and which connects general, compensatory, and special education
5 programs to provide interventions implemented with fidelity to evidence-based
6 research and matched to individual student strengths and needs. At a minimum,
7 the administrative regulations shall require that evidence of implementation shall
8 be submitted by each district to the department by October 1 of each year and
9 shall include but not be limited to implementation of the activities required under
10 KRS 158.649 for mathematics by December 1, 2025.

11 (3) Implementation of a district-wide multitiered system of supports shall include
12 evidence-based mathematics instruction, intervention and instructional strategies
13 that emphasize conceptual understanding, procedural skill and fluency,
14 geometry, data and measurement, statistics and probability, number sense, place
15 value understanding, spatial reasoning and subitizing for multiplicative
16 reasoning.

17 (4) Explicit and systematic instruction shall include conceptual understanding,
18 procedural skill and fluency, and application with a specific focus on rational
19 numbers, ratios and proportional reasoning, geometry, statistical reasoning, and
20 modeling relationships between two (2) quantities using multiple representations
21 including tables, graphs, and equations.

22 (5) The department shall provide technical assistance and training, if requested by a
23 local district, to assist in the implementation of the district-wide, multitiered
24 system of supports as a means to identify and assist any student experiencing
25 difficulty in mathematics and to determine appropriate instructional
26 modifications needed by advanced learners to make continuous progress.

27 (6) The technical assistance and training shall be designed to improve:

- 1 (a) The use of specific screening processes and diagnostic assessments to
2 identify student strengths and needs;
- 3 (b) The use of universal screening and diagnostic data for implementing
4 instruction and intervention, as needed;
- 5 (c) The use of valid and reliable evidence-based instructional strategies and
6 interventions for mathematics education;
- 7 (d) Progress monitoring of student performance; and
- 8 (e) Accelerated, intensive, direct instruction that addresses students' individual
9 differences, including advanced learners, and enables students that are
10 experiencing difficulty to catch up with typically performing peers.
- 11 (7) (a) By January 1, 2025, each superintendent or public charter school board of
12 directors shall select:
- 13 1. At least one (1) universal screener for mathematics that is determined
14 by the department to be valid and reliable to be administered to all
15 students in grade four (4) through grade eight (8); and
- 16 2. At least one (1) diagnostic assessment for mathematics that is
17 determined by the department to be reliable and valid to be
18 administered as part of a multitiered system of supports for students in
19 grade four (4) through grade eight (8).
- 20 (b) Each superintendent or public charter school board of directors shall adopt
21 a common Tier 1 universal high-quality instructional resource for
22 mathematics that is determined by the department to be reliable, valid, and
23 aligned to Kentucky academic standards for mathematics required by KRS
24 158.6453 and outlined in administrative regulation promulgated by the
25 Kentucky Board of Education for grade four (4) through grade eight (8) for
26 all schools or a subset of schools, with consultation of all affected school
27 councils.

- 1 (c) All teachers of students in grade four (4) through grade eight (8), including
2 public charter school teachers, shall be trained on any mathematics
3 universal screener and diagnostic assessment selected by the superintendent
4 or public charter school board prior to administration of the assessment.
5 The training shall address:
6 1. How to properly administer the mathematics universal screener and
7 diagnostic assessment;
8 2. How to interpret the results of the mathematics universal screener and
9 diagnostic assessment to identify students needing interventions;
10 3. How to use the assessment results to design instruction and
11 interventions;
12 4. The use of the assessment to monitor the progress of student
13 performance; and
14 5. The use of accelerated, intensive, and direct instruction that addresses
15 students' individual differences and enables students to achieve
16 proficiency in mathematics, including but not limited to daily, one-on-
17 one instruction.
- 18 (8) Beginning with the 2025-2026 school year, a universal screener determined by
19 the department to be valid and reliable shall be given in the first thirty (30)
20 calendar days of the school year to each student in grades four (4) through eight
21 (8) at a public school or public charter school.
- 22 (9) Those students determined to be at risk for not meeting grade-level benchmarks
23 in mathematics for grades four (4) through eight (8) based on the universal
24 screener shall be given a mathematics diagnostic assessment determined by the
25 department to be valid and reliable to identify the individual student deficits in
26 numeracy and other mathematical content and practices as listed in subsection
27 (1) of this section in the first forty-five (45) calendar days of the school year.

1 (10) A mathematics improvement plan shall be developed and implemented in the first
2 sixty (60) calendar days of the school year by a mathematics improvement team
3 for any student in grades four (4) through eight (8) identified as needing
4 accelerated interventions to progress toward proficient performance in
5 mathematics. The mathematics improvement plan shall require:

6 (a) Intensive intervention that includes effective instructional strategies and
7 high-quality instructional resources necessary to help the student make
8 accelerated progress toward proficient performance in mathematics and
9 become ready for the next grade, including but not limited to daily, one-on-
10 one instruction with students the most in need provided by certified teachers
11 specifically trained and most qualified to provide one-on-one instruction in
12 numeracy;

13 (b) Written quarterly progress reports provided by the school to a parent or
14 guardian of any student subject to a mathematics improvement plan. The
15 written quarterly progress report for the mathematics improvement plan
16 may be included in the school's existing quarterly student progress report;
17 and

18 (c) Individual placement decisions for children who are eligible for special
19 education and related services to be determined by the appropriate
20 admissions and release committee in accordance with administrative
21 regulations promulgated by the Kentucky Board of Education.

22 (11) Beginning in the 2025-2026 school year, if a student's rate of progress toward
23 proficient performance in mathematics needs accelerated interventions as
24 demonstrated by the results of an approved universal screener and mathematics
25 diagnostic assessment, the local school district shall provide:

26 (a) Enrichment programs for students in grades four (4) through eight (8)
27 using evidence-based mathematics instruction and other strategies;

1 (b) Intensive instructional services, progress monitoring measures, and
2 supports to students in grade four (4) through grade eight (8); and

3 (c) Parents and legal guardians of students identified for accelerated
4 interventions in mathematics in grade four (4) through grade eight (8) with
5 information on how to encourage mathematics success at home.

6 (12) By September 1, 2025, if funds are available, the department shall establish
7 teacher academies or coaching models for teachers of students in grade four (4)
8 through grade eight (8). The teacher academies or coaching models shall be
9 related to evidence-based practices in instruction, instructional materials, and
10 assessment in mathematics.

11 (13) The department shall develop and maintain a web based resource providing
12 teachers access to:

13 (a) Information on the use of specific screening processes and programs to
14 identify student strengths and needs, including those for advanced learners
15 in mathematics for grade four (4) through grade eight (8);

16 (b) Current, evidence-based research and age-appropriate instructional
17 resources that may be used for substantial, steady improvement in
18 mathematics in grades four (4) through eight (8) when a student is
19 experiencing difficulty with basic math facts, conceptual understanding,
20 procedural skill, fluency, or application, or is exhibiting characteristics of
21 dyscalculia or other mathematical difficulties; and

22 (c) Current evidence-based research and age-appropriate high-quality
23 instructional resources that may be used for continuous progress of
24 advanced learners in mathematics for grade four (4) through grade eight
25 (8).

26 (14) The department shall encourage districts to utilize both state and federal funds,
27 as appropriate, to implement a district-wide multitiered system of supports,

1 including high-quality mathematics instruction and instructional resources,
2 evidence-based intervention strategies and materials, aligned curriculum-based
3 professional learning, and ongoing, job-embedded coaching supports.

4 (15) The department shall coordinate technical assistance and training on current
5 evidence-based mathematics instructional practices and interventions with state
6 postsecondary education institutions.

7 (16) The department shall collaborate with AdvanceKentucky, the Kentucky Center
8 for Mathematics, the Partnership Institute for Math and Science Education
9 Reform, the Education Professional Standards Board, the Council on
10 Postsecondary Education, postsecondary teacher education programs, and other
11 agencies and organizations as deemed appropriate, to ensure that teachers are
12 prepared to utilize evidence-based instruction, high-quality instructional
13 resources, and interventions in mathematics for grade four (4) through grade
14 eight (8).

15 (17) In compliance with 20 U.S.C. sec. 1414(a)(1)(E), screening of a student to
16 determine appropriate instructional strategies for curriculum implementation
17 shall not be considered an evaluation for eligibility for special education and
18 related services, and nothing in this section shall limit a school district from
19 completing an initial evaluation of a student suspected of having a disability.

20 ➔SECTION 4. A NEW SECTION OF KRS CHAPTER 164 IS CREATED TO
21 READ AS FOLLOWS:

22 (1) As used in this section, "department" means the Kentucky Department of
23 Education.

24 (2) Beginning with the 2025-2026 school year, postsecondary institutions offering
25 teacher preparation programs for elementary regular education or middle school
26 mathematics education shall include kindergarten through grade twelve (12)
27 evidence-based instructional strategies, department-identified valid and reliable

1 high-quality resources for mathematics instruction related to Section 3 of this
2 Act, and:

3 (a) Evidence-based instructional strategies determined by the department to be
4 effective at improving student learning for the range of students in their
5 classrooms, including students needing to make accelerated progress toward
6 proficiency, exceptional students, and students who are multilingual
7 learners;

8 (b) High-quality instructional resources as determined by the department to be
9 effective at improving student learning for the range of students in their
10 classrooms, including students needing to make accelerated progress toward
11 proficiency, exceptional students, and students who are multilingual
12 learners;

13 (c) The use of a range of assessment data for designing instruction and
14 intervention;

15 (d) Progress monitoring of student performance that attends to learning
16 trajectories in mathematics; and

17 (e) Field experience placements, including student teaching, with teachers that
18 model paragraphs (a) to (d) of this subsection and are evaluated by
19 supervisors that are knowledgeable in paragraphs (a) to (d) of this
20 subsection.

21 (3) By January 1, 2025, the Education Professional Standards Board shall:

22 (a) Develop and maintain a list of approved teacher preparation assessments
23 that are determined by the board to be an effective evaluation of
24 mathematics instruction, content and practice standards, and skills; and

25 (b) Develop an evaluation rubric for observing teacher candidates with focus
26 on mathematics content and pedagogical knowledge.

27 (4) The Education Professional Standards Board shall report program data to an

1 external evaluator for analysis of postsecondary teacher preparation programs
2 for elementary regular education or middle school mathematics education for the
3 goal of increasing the success of new teacher candidates in demonstrating
4 mathematics instruction, content knowledge, and skills.

5 ➔Section 5. KRS 158.842 is amended to read as follows:

6 (1) As used in KRS 158.840 to 158.844~~[, unless the context requires otherwise]~~:

7 (a) "Concepts" means mathematical ideas that serve as the basis for
8 understanding mathematics;

9 (b) "Mathematics" means the curriculum of numbers and computations, geometry
10 and measurements, probability and statistics, and algebraic ideas;

11 (c) "Mathematics coach" means a mathematics leader whose primary
12 responsibility is to provide ongoing support for one (1) or more mathematics
13 teachers. The role of the coach is to improve mathematics teaching practices
14 by working with teachers in their classrooms, observing and providing
15 feedback to them, modeling appropriate teaching practices, conducting
16 workshops or institutes, establishing learning communities, and gathering
17 appropriate and useful resources;

18 (d) "Mathematics diagnostic assessment" means an assessment that identifies a
19 student at risk of failure in mathematics or a student with major deficits in
20 numeracy and other mathematical concepts and skills;

21 (e) "Mathematics intervention program" means an intensive instructional
22 program that is based on valid research and is provided by a highly trained
23 teacher to specifically meet individual students' needs;

24 (f) "Mathematics leader" means any educator with a specialization in
25 mathematics who:

- 26 1. Serves in a supervisory capacity, such as mathematics department chair,
27 school-based mathematics specialist, or district mathematics supervisor

- 1 or coordinator; or
- 2 2. Regularly conducts or facilitates teacher professional development, such
- 3 as higher education faculty or other mathematics teachers;
- 4 (g) "Mathematics mentor" means an experienced mathematics coach who
- 5 typically works with beginning or novice teachers only. The responsibilities
- 6 and roles of the mentor are the same as those of the coach;
- 7 (h) "Numeracy" means the development of the basic concepts which include
- 8 counting, place value, addition and subtraction strategies, multiplication and
- 9 division strategies, and the concepts of time, money, and length. To be
- 10 numerate is to have and be able to use appropriate mathematical knowledge,
- 11 concepts, skills, intuition, and experience in relationship to every day life;
- 12 (i) "Relationships" means connections of mathematical concepts and skills within
- 13 mathematics; and
- 14 (j) "Skills" means actions of mathematics.
- 15 (2) The Committee for Mathematics Achievement is hereby created for the purposes of
- 16 developing a multifaceted strategic plan to improve student achievement in
- 17 mathematics at all levels of schooling, prekindergarten through postsecondary and
- 18 adult. At a minimum the plan shall address:
- 19 (a) Challenging curriculum that is aligned prekindergarten through
- 20 postsecondary, including consensus among high school teachers and
- 21 postsecondary education faculty about expectations, curriculum, and
- 22 assessment;
- 23 (b) Attitudes and beliefs of teachers about mathematics;
- 24 (c) Teachers' knowledge of mathematics;
- 25 (d) Diagnostic assessment, intervention services, and instructional strategies;
- 26 (e) Shortages of teachers of mathematics, including incentives to attract strong
- 27 candidates to mathematics teaching;

- 1 (f) Statewide institutes that prepare cadres of mathematics leaders in local school
 2 districts, which may include highly skilled retired mathematics teachers, to
 3 serve as coaches and mentors in districts and schools;
- 4 (g) Cohesive continuing education options for experienced mathematics
 5 classroom teachers;
- 6 (h) Closing the student achievement gap among various student subpopulations;
- 7 (i) Curriculum expectations and assessments of students among the various
 8 school levels, prekindergarten, primary, elementary, middle, and high school;
- 9 (j) Curriculum expectations and assessments for adult education
 10 centers~~[Content standards for adult education centers providing mathematics~~
 11 ~~curricula];~~
- 12 (k) Introductory postsecondary education mathematics courses that are
 13 appropriate to the wide array of academic programs and majors;
- 14 (l) Research to analyze further the issues of transition from high school or High
 15 School Equivalency Diploma programs to postsecondary education
 16 mathematics; and
- 17 (m) The early mathematics testing program under KRS 158.803.

18 Other factors may be included in the strategic plan as deemed appropriate by the
 19 committee to improve mathematics achievement of Kentucky students.

20 (3) ~~In carrying out its responsibility under subsection (2)(f) of this section, the~~
 21 ~~committee shall:~~

22 ~~(a) Design a statewide professional development program that includes summer~~
 23 ~~mathematics institutes at colleges and universities, follow up, and school-~~
 24 ~~based support services, beginning no later than June 1, 2006, to prepare teams~~
 25 ~~of teachers as coaches and mentors of mathematics at all school levels to~~
 26 ~~improve student achievement. Teachers shall receive training in diagnostic~~
 27 ~~assessment and intervention. The statewide initiative shall be funded, based~~

- 1 ~~on available funds, from the Teachers' Professional Growth Fund described in~~
2 ~~KRS 156.553. The design shall:~~
- 3 ~~1. Define the curricula focus;~~
 - 4 ~~2. Build on the expertise of specific colleges and universities;~~
 - 5 ~~3. Place emphasis on mathematics concepts, skills and relationships,~~
6 ~~diagnostic assessment, intervention services, and instructional strategies;~~
 - 7 ~~4. Identify quality control measures for the delivery of each institute;~~
 - 8 ~~5. Establish evaluation procedures for the summer institutes and the other~~
9 ~~professional development components;~~
 - 10 ~~6. Provide updates and networking opportunities for coaches and mentors~~
11 ~~throughout the school year; and~~
 - 12 ~~7. Define other components within the initiative that are necessary to meet~~
13 ~~the goal of increasing student achievement in mathematics;~~
- 14 ~~(b) Require schools and districts approved to have participants in the mathematics~~
15 ~~leader institutes to provide assurances that:~~
- 16 ~~1. The district and schools have, or will develop, local mathematics~~
17 ~~curricula and assessments that align with state standards for~~
18 ~~mathematics;~~
 - 19 ~~2. There is a local commitment to build a cadre of mathematics leaders~~
20 ~~within the district;~~
 - 21 ~~3. The district and participating schools will provide in-school support for~~
22 ~~coaching and mentoring activities;~~
 - 23 ~~4. The mathematics teachers are willing to develop classroom assessments~~
24 ~~that align with state assessments; and~~
 - 25 ~~5. Students who need modified instructional and intervention services will~~
26 ~~have opportunity for continuing education services beyond the regular~~
27 ~~school day, week, or year; and~~

1 ~~(e) In addition to the conditions specified in paragraph (b) of this subsection, the~~
 2 ~~committee shall make recommendations to the Kentucky Department of~~
 3 ~~Education and the Kentucky Board of Education for criteria to be included in~~
 4 ~~administrative regulations promulgated by the board which define:~~

5 ~~1. Eligible grant recipients, taking into consideration how this program~~
 6 ~~relates to other funded mathematics initiatives;~~

7 ~~2. The application process and review;~~

8 ~~3. The responsibilities of schools and districts, including but not limited to~~
 9 ~~matching funds requirements, released or extended time for coaches and~~
 10 ~~mentors during the school year, continuing education requirements for~~
 11 ~~teachers and administrators in participating schools, data to be collected,~~
 12 ~~and local evaluation requirements; and~~

13 ~~4. Other recommendations requested by the Kentucky Department of~~
 14 ~~Education.~~

15 ~~(4) The committee shall [initially] be composed of twenty-three (23)[twenty five (25)]~~
 16 ~~members as follows:~~

17 ~~(a) The commissioner of education or his or her designee;~~

18 ~~(b) The president of the Council on Postsecondary Education or his or her~~
 19 ~~designee;~~

20 ~~(c) The president of the Association of Independent Kentucky Colleges and~~
 21 ~~Universities or his or her designee;~~

22 ~~(d) [The executive director of the Education Professional Standards Board or his~~
 23 ~~or her designee;~~

24 ~~(e) The secretary of the Education and Labor Cabinet or his or her designee;~~

25 ~~(e)[(f)] Four (4) representatives[A representative] with a specialty in~~
 26 ~~mathematics or mathematics education who have[has] expertise and~~
 27 ~~experience in professional development, especially with coaching and~~

1 mentoring of teachers, from any of the~~each of the nine (9)~~ public
 2 postsecondary education institutions defined in KRS 164.001. The
 3 representatives shall be selected by mutual agreement of the president of the
 4 Council on Postsecondary Education and the commissioner of education;

5 ~~(f)(g)~~ **One (1)**~~Two (2)~~ adult education **mathematics instructor**~~instructors~~
 6 selected by the secretary of the Education and Labor Cabinet;

7 ~~(g)(h)~~ Two (2) elementary, two (2) middle, and two (2) high school
 8 mathematics teachers, appointed by the **commissioner of education;**~~board of
 9 the statewide professional education association having the largest paid
 10 membership with approval from their respective local principals and
 11 superintendents of schools; and]~~

12 ~~(h)(i)~~ Three (3) school administrators **or building-level mathematics**
 13 **instructional coaches**, with one (1) each representing elementary, middle, and
 14 high school, appointed by the **commissioner of education;**~~board of the
 15 statewide administrators' association having the largest paid membership with
 16 approval from their respective local superintendents of schools.]~~

17 **(i) Two (2) district administrators or district-level mathematics instructional**
 18 **coaches appointed by the commissioner of education;**

19 **(j) The executive director of**~~When]~~ the Center for Mathematics created under
 20 KRS 164.525 **or his or her designee;**~~becomes operational, the executive
 21 director of the center shall be added to the committee, which shall then be
 22 composed of twenty six (26) members. Appointments to the committee shall
 23 be made no later than thirty (30) days following March 18, 2005, and the first
 24 meeting of the committee shall occur no later than thirty (30) days following
 25 appointment of the members.]~~

26 **(k) The executive director of AdvanceKentucky or his or her designee; and**

27 **(l) The executive director of the Partnership Institute for Math and Science**

1 **Education Reform or his or her designee.**

2 ~~(4)~~~~(5)~~ A majority of the ~~[full]~~ membership **present** shall constitute a quorum.

3 ~~(5)~~~~(6)~~ Each member of the committee, other than members who serve by virtue of
4 their positions, shall serve for a term of three (3) years or until a successor is
5 appointed and qualified~~[-, except that the initial appointments shall be made in the~~
6 following manner: six (6) members shall serve a one (1) year term, six (6) members
7 shall serve a two (2) year term, and eight (8) members shall serve a three (3) year
8 term].

9 ~~(6)~~~~(7)~~ A ~~[temporary chair of the committee shall be appointed prior to the first~~
10 meeting of the committee through consensus of the president of the Council on
11 Postsecondary Education and the commissioner of education, to serve ninety (90)
12 days after his or her appointment. Prior to the end of the ninety (90) days, the
13 committee shall elect a chair by majority vote. The temporary chair may be a
14 nominee for the chair by majority vote. Thereafter, a]chair **of the committee** shall
15 be elected each calendar year. An individual may not serve as chair for more than
16 three (3) consecutive years. The chair shall be the presiding officer of the
17 committee, and coordinate the functions and activities of the committee.

18 ~~(7)~~~~(8)~~ The committee shall be attached to the Kentucky Department of Education for
19 administrative purposes. The commissioner of education ~~shall~~~~[may]~~ contract with a
20 mathematics-trained professional to provide part-time staff support to the
21 committee. The commissioner of education and the president of the council shall
22 reach consensus in the selection of a person to fill the position. The person selected
23 shall have a graduate degree, a mathematics **or mathematics education** major, and
24 teaching or administrative experience in elementary and secondary education. The
25 person shall not be a current employee of any entity represented on the committee.
26 The department shall provide office space and other resources necessary to support
27 the staff position and the work of the committee.

1 ~~(8)~~⁽⁹⁾ The committee, under the leadership of the chair, may organize itself into
 2 appropriate subcommittees and work structures to accomplish the purposes of the
 3 committee.

4 ~~(9)~~⁽¹⁰⁾ Members of the committee shall serve without compensation but shall be
 5 reimbursed for necessary travel and expenses while attending meetings at the same
 6 per diem rate promulgated in administrative regulation for state employees under
 7 provisions of KRS Chapter 45. Funds shall be provided school districts to cover the
 8 cost of substitute teachers for those teachers on the committee at each district's
 9 established rate for substitute teachers.

10 ~~(10)~~⁽¹¹⁾ If a vacancy occurs within the committee during its duration, the vacancy
 11 shall be filled in the same manner as set forth in the original appointment~~board~~
 12 ~~of the statewide professional education association having the largest paid~~
 13 ~~membership or the board of the statewide administrators association having the~~
 14 ~~largest paid membership or the president of the Council on Postsecondary~~
 15 ~~Education, as appropriate, shall appoint a person to fill the vacancy].~~

16 ~~(11)~~⁽¹²⁾ The committee shall:

17 ~~(a) Present a draft strategic plan addressing the requirements in subsection (1) of~~
 18 ~~this section and other issues that arose during the work of the committee to the~~
 19 ~~Education Assessment and Accountability Review Subcommittee no later~~
 20 ~~than August 2005;~~

21 ~~(b) Present the strategic plan for improving mathematics achievement to the~~
 22 ~~Interim Joint Committee on Education by July 15, 2006, which shall include~~
 23 ~~any recommendations that require legislative action; and~~

24 ~~(c)]~~ provide a final written report of committee activities and progress regarding
 25 the strategic plan required under subsection (2) of this section to the Interim
 26 Joint Committee on Education and the Legislative Research Commission by
 27 December 1, 2024~~[2006]~~.

1 ~~(12)~~~~(13)~~ The committee shall have ongoing responsibility for providing advice and
2 guidance to policymakers in the development of statewide policies and in the
3 identification and allocation of resources to improve mathematics achievement. In
4 carrying out this responsibility, the committee shall periodically review the strategic
5 plan and make modifications as deemed appropriate and report those to the Interim
6 Joint Committee on Education.

7 ~~(13)~~~~(14)~~ The committee shall collaborate with the Center for Mathematics to ensure
8 that there is ongoing identification of research *and evidence*-based intervention
9 programs for K-12 students who have fallen behind in mathematics, rigorous
10 mathematics curricula that prepare students for the next level of schooling, research
11 *and evidence*-based professional development models that prepare teachers in
12 mathematics and pedagogy, and strategies for closing the gap between high school
13 or a High School Equivalency Diploma program and postsecondary mathematics
14 preparation.

15 ➔SECTION 6. A NEW SECTION OF KRS CHAPTER 158 IS CREATED TO
16 READ AS FOLLOWS:

17 *(1) The Kentucky numeracy counts fund is hereby created for the purpose of training*
18 *and supporting teachers to improve the mathematics content and practices of*
19 *students in grades four (4) through grade eight (8), as set forth in subsection (2)*
20 *of this section and subsection (12) of Section 3 of this Act. The fund shall consist*
21 *of all moneys received from state appropriations, gifts, grants, and federal funds*
22 *for this purpose. The department shall administer the fund.*

23 *(2) The department shall implement teacher professional learning academies related*
24 *to evidence-based practices in instruction, instructional materials, and*
25 *assessment in mathematics using moneys appropriated to or otherwise received*
26 *by the Kentucky numeracy counts fund.*

27 *(3) The department shall create a mathematics coaching program using moneys*

1 appropriated to or otherwise received by the Kentucky numeracy counts fund.

2 The program shall:

3 (a) Use data coaches to improve mathematics instruction and intervention;

4 (b) Determine the effectiveness of intensive data-focused professional
5 development; and

6 (c) Provide expert support in mathematics instruction and intervention.

7 (4) (a) The department may provide grants to local school districts and public
8 charter schools. The grant shall only be used to purchase approved high-
9 quality, research and evidence-based curriculum aligned to kindergarten
10 through grade twelve (12) academic standards in mathematics and
11 expenditures for curriculum-based professional learning to implement new
12 curriculum.

13 (b) To be eligible to receive a grant, a local school district or public charter
14 school shall:

15 1. Submit an application in accordance with paragraph (4)(c) of this
16 section; and

17 2. Agree to adopt a common comprehensive mathematics program that is
18 determined by the department to be reliable, valid, and aligned to
19 mathematics standards required by KRS 158.6453 and outlined in an
20 administrative regulation promulgated by the Kentucky Board of
21 Education.

22 (c) Local school districts shall submit applications that include a district-wide
23 plan and public charter schools shall submit applications that include a
24 school plan for implementation of mathematics curriculum that includes:

25 1. How the district or public charter school will implement the new
26 curriculum by school and by grade level; and

27 2. The timeline for the rollout of upgraded curriculum materials for core

1 instruction in classrooms.

2 (d) Available grant funding shall be distributed to eligible applicants based on a
3 rubric developed by the department. The rubric shall consider the
4 information provided in accordance with subsection (4) of this section and
5 prioritize applications from local school districts or public charter schools:

6 1. In which more than fifty percent (50%) of the enrolled students scored
7 below the statewide average on the statewide assessments in
8 mathematics administered for the preceding school year;

9 2. With the greatest need for financial assistance; and

10 3. That propose comprehensive plans most likely to increase student
11 achievement in mathematics.

12 (e) The department shall distribute the awarded grant money to a public
13 charter school authorizer, and the authorizer shall distribute one hundred
14 percent (100%) of the grant money to the charter school.

15 (5) Notwithstanding the provisions of KRS 45.229, unexpended funds in the
16 Kentucky numeracy counts fund shall not lapse but shall carry forward to the
17 next fiscal year and shall be used for the purposes established in this section.

18 (6) Any interest earned on moneys in the fund shall become part of the fund and
19 shall not lapse.

20 ➔Section 7. This Act may be cited as the Kentucky Numeracy Counts Act.