

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 4 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 to support and engage all*
 17 *students in learning to apply mathematical content and practices at a*
 18 *proficient level; and*

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

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

27 1. Implement evidence-based reading, intervention, and instructional

- 1 strategies that emphasize phonemic awareness, phonics, fluency,
 2 vocabulary, comprehension, and connections between reading and
 3 writing acquisition, and motivation to read to address the diverse needs
 4 of students;
- 5 2. **Implement evidence-based mathematics instruction, intervention, and**
 6 **instructional strategies that emphasize algebraic reasoning,**
 7 **conceptual understanding, procedural skill and fluency, geometry,**
 8 **data and measurement, statistics and probability, number sense, place**
 9 **value understanding, spatial reasoning, and subitizing for**
 10 **multiplicative reasoning;**
- 11 3. Identify and teach the **grade-level content, practices, and** skills that
 12 students need to comprehend the concepts and content of each subject
 13 area; and
- 14 4.~~3.~~ Use **learning experiences**~~[activities]~~ and **high-quality instructional**
 15 materials that will help the students comprehend, **meet grade-level**
 16 **expectations,** and constructively apply information based on the unique
 17 content of each subject area;
- 18 (d) The Education Professional Standards Board **shall** review and revise when
 19 deemed necessary the teacher certification and licensure requirements to
 20 ensure that all teachers, regardless of the subject area taught, are prepared to
 21 improve students' subject reading **and mathematics** skills; and
- 22 (e) The department shall collaborate with **relevant groups for the purpose of**
 23 **increasing student outcomes in literacy and mathematics**~~[the Department for~~
 24 ~~Libraries and Archives, the Governor's Office of Early Childhood, and~~
 25 ~~Kentucky Educational Television to establish and maintain a partnership to~~
 26 ~~support the use of high quality, evidence based year round programming,~~
 27 ~~materials, and activities for elementary aged children in the areas of reading].~~

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

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

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

8 (b) All students in kindergarten through grade three (3) needing to make
9 accelerated progress toward proficiency in mathematics based on data from
10 valid and reliable universal screening and diagnostic assessments receive
11 high-quality, evidence-based mathematics instruction and intervention
12 aligned to the Kentucky academic standards for mathematics;

13 (c) All students demonstrate proficiency in reading and mathematics as they
14 progress through the relevant curricula and complete each assessment level
15 required by the Kentucky Board of Education for the state assessment
16 program established under KRS 158.6453 and in compliance with the
17 requirements of the federal Every Student Succeeds Act of 2015, Pub. L. No.
18 114-95, or its successor; and

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

23 The General Assembly, the Kentucky Board of Education, the Kentucky
24 Department of Education, the Council on Postsecondary Education, colleges and
25 universities, local boards of education, school administrators, school councils,
26 teachers, parents and families, and other educational entities, such as the Education
27 Professional Standards Board, P-16 councils, the statewide reading research center

1 established under KRS 164.0207, and the Center for Middle School Academic
2 Achievement must collaborate if the intentions specified in this subsection are to be
3 met. Intensive focus on student achievement in reading and mathematics does not
4 negate the responsibility of any entity to help students obtain proficiency in other
5 core curriculum content areas.

6 (2) The General Assembly's role is to set policies that address the achievement levels of
7 all students and provide resources for the professional growth of teachers and
8 administrators, assessing students' academic achievement, including valid and
9 reliable universal screening and diagnostic assessment and instructional
10 interventions, technology innovations, targeted reading and mathematics statewide
11 initiatives, research and the distribution of research findings, services for students
12 beyond the regular school day, and other services needed to help struggling
13 learners.

14 (3) The Kentucky Board of Education shall regularly review and modify, when
15 appropriate, its statewide assessment policies and practices to enable local school
16 districts and schools to carry out the provisions of the statewide assessment and
17 accountability system, required under KRS 158.6453 to improve student
18 achievement in mathematics and reading.

19 (4) The Kentucky Department of Education shall:

20 (a) Provide assistance to schools and teachers, including publicizing professional
21 development opportunities, methods of measuring effective professional
22 development, the availability of high quality instructional materials, and
23 developmentally appropriate, valid, and reliable screening and diagnostic
24 assessments of student competency in mathematics and reading. The
25 department shall provide access to samples of units of study, annotated
26 student work, diagnostic instruments, and research findings, and give
27 guidance on parental engagement;

- 1 (b) Work with state and national educators and subject-matter experts to identify
2 student reading and mathematical skills in each subject area that align with
3 the state content standards adopted under KRS 158.6453 and identify teaching
4 strategies in each subject area that can be used explicitly to develop the
5 identified reading and mathematical skills under this paragraph;
- 6 (c) Encourage the development of comprehensive middle and high school
7 adolescent reading and mathematics plans to be incorporated into the
8 curricula of each subject area to improve the reading comprehension and
9 mathematical skills of all students;
- 10 (d) Conduct an annual review of the state grant programs it manages and make
11 recommendations, when needed, to the Interim Joint Committee on Education
12 for changes to statutory requirements that are necessary to gain a greater
13 return on investment;
- 14 (e) Provide administrative support and oversight to programs to train classroom
15 coaches and mentors to help teachers with reading and mathematics
16 instruction; and
- 17 (f) Require no reporting of instructional plans, formative assessment results, staff
18 effectiveness processes, or interventions implemented in the classroom,
19 except for:
- 20 1. Interventions implemented under KRS 158.305(2) and Section 4 of this
21 Act;
 - 22 2. Funds provided under KRS 158.792 or 158.844; or
 - 23 3. Schools that are identified for comprehensive support and improvement
24 and fail to exit comprehensive support and improvement status after
25 three (3) consecutive years of implementing the turnaround intervention
26 process as described in KRS 160.346.
- 27 (5) The Council on Postsecondary Education, in cooperation with the Education

1 Professional Standards Board, shall exercise its duties and functions under KRS
2 164.020 to ensure that teacher education programs are fulfilling the needs of
3 Kentucky for highly skilled teachers. The council shall:

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

8 (b) No later than November 1 of each year, submit an annual^[a] report to the
9 Legislative Research Commission for referral to the Interim Joint Committee
10 on Education and the Interim Joint Committee on Appropriations and
11 Revenue,~~[no later than November 1 of each year]~~ summarizing the
12 compliance of each teacher preparation program for alignment
13 to~~[interdisciplinary]~~ early childhood education or elementary regular
14 education standards and to the instructional requirements set forth in KRS
15 164.306(1) and Section 7 of this Act; and

16 (c) Require that~~[Regularly report program data to]~~an external evaluator
17 provide~~[for]~~ an annual analysis of the ability~~[progress]~~ of teacher preparation
18 programs to properly train and equip teacher preparation program students
19 with the literacy and mathematics content knowledge and skills to educate
20 students in kindergarten through grade three (3)~~[for interdisciplinary early~~
21 ~~childhood education and elementary regular education to increase the success~~
22 ~~of new teacher candidates in demonstrating reading instruction knowledge~~
23 ~~and skills].~~

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

27 (7) Colleges and universities shall:

- 1 (a) Utilize institution-wide resources to work with elementary and secondary
2 educators and other entities to align curriculum content to ensure that students
3 who achieve proficiency on standards established at the prekindergarten
4 through secondary levels will require no remediation to successfully enter a
5 postsecondary education program;
- 6 (b) Provide quality undergraduate teacher preparation programs to ensure that
7 those preparing to teach reading or mathematics at all grade levels have the
8 necessary content knowledge, assessment and diagnostic skills, and teaching
9 methodologies and that teachers in all subject areas have the requisite skills
10 for helping students at all grade levels develop critical strategies and skills for
11 reading and comprehending subject matter;
- 12 (c) Deliver evidence-based~~[appropriate]~~ continuing education for teachers in
13 reading and mathematics through institutes, graduate level courses, and other
14 professional development activities that support a statewide agenda for
15 improving student achievement in reading and mathematics;
- 16 (d) Conduct or assist with research on best practices in assessment, intervention
17 strategies, teaching methodologies, costs and effectiveness of instructional
18 models, and other factors as appropriate to reading and mathematics;
- 19 (e) Provide staff to consult and provide technical assistance to teachers, staff, and
20 administrators at elementary, middle, and secondary school sites;
- 21 (f) Assume active roles in the statewide initiatives referenced in KRS 156.553
22 and 158.842; and
- 23 (g) Develop written procedures for measuring the effectiveness of activities
24 outlined in paragraphs (a) to ~~(f)~~~~(e)~~ of this subsection.
- 25 (8) School councils at all school levels are encouraged to identify and allocate
26 resources to qualified teachers to become coaches or mentors in mathematics or
27 coaches or mentors in reading with a focus on improving student achievement in

1 their respective schools.

2 (9) Local school boards and superintendents shall provide local resources~~[, whenever~~
3 ~~possible,]~~ to supplement or match state and federal resources to support teachers,
4 school administrators, and school councils in helping students achieve proficiency
5 in reading and mathematics.

6 (10) Local school superintendents shall provide leadership and resources to the
7 principals of all schools to facilitate curriculum alignment, communications, and
8 technical support among schools to ensure that students are academically prepared
9 to move to the next level of schooling.

10 ➔SECTION 3. A NEW SECTION OF KRS CHAPTER 158 IS CREATED TO
11 BE NUMBERED AS KRS 158.8401 AND TO READ AS FOLLOWS:

12 *As used in KRS 158.840 to 158.844:*

13 *(1) "Conceptual understanding" means connecting prior knowledge to new ideas*
14 *and concepts, and making sense of why a mathematical idea is important and the*
15 *kinds of contexts in which it is useful;*

16 *(2) "Diagnostic Assessment" means a testing instrument that assesses a student's*
17 *current knowledge base of academic content;*

18 *(3) "Dyscalculia" has the same meaning as in KRS 158.305;*

19 *(4) "Enrichment program" means accelerated intervention within the school day or*
20 *outside of the school day or school calendar, led by individuals most qualified to*
21 *provide the intervention and specifically determined to address the individual*
22 *learning needs of students based on universal screening and diagnostics*
23 *assessments in mathematics;*

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

25 *(6) "Mathematics" means the curriculum of numbers and computations, geometry*
26 *and measurements, probability and statistics, and algebraic ideas;*

27 *(7) "Mathematics coach" means a mathematics leader whose primary responsibility*

1 is to provide ongoing support for one (1) or more mathematics teachers. The role
2 of the coach is to improve mathematics teaching practices by working with
3 teachers in their classrooms, observing and providing feedback to them, modeling
4 appropriate teaching practices, conducting workshops or institutes, establishing
5 learning communities, and gathering appropriate and useful resources;

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

9 (9) "Mathematics improvement plan" means an accelerated intervention plan for a
10 student in grade kindergarten through grade three (3) that is developed to
11 increase a student's rate of progress toward proficient performance in
12 mathematics that is identified as necessary based on the student's results on an
13 approved mathematics diagnostic assessment;

14 (10) "Mathematics improvement team" means a team that develops and oversees the
15 progress of a mathematics improvement plan and includes:

16 (a) The parents or guardians of the student that is the subject of the
17 mathematics improvement plan;

18 (b) No less than one (1) regular education teacher of the student, to provide
19 information about the general curriculum for same-aged peers;

20 (c) A representative of the local education agency who is knowledgeable about
21 the mathematics curriculum and the availability of the evidence-based
22 mathematics resources of the local education agency; and

23 (d) Any specialized certified school employees, including but not limited to
24 mathematics teachers, specialists or coaches, for students receiving
25 mathematics instruction educational programming or special education
26 services;

27 (11) "Mathematics intervention program" means an intensive instructional program

1 that is based on valid research and is provided by a highly trained teacher to
2 specifically meet individual students' needs;

3 (12) "Multitiered system of supports" means a systemic, continuous improvement
4 framework in which evidence-based problem-solving and decision making is
5 practiced across all levels of the educational system for supporting students. The
6 framework of MTSS utilizes high quality evidence-based instruction,
7 intervention, and assessment practices to ensure that every student receives the
8 appropriate level of support to be successful. A multitiered system of support
9 helps schools and districts to organize resources through alignment of academic
10 standards, implemented with fidelity and sustained over time, in order to
11 accelerate the performance of every student to achieve and exceed proficiency;

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

17 (14) "Numeracy" means the development of the basic concepts which include
18 counting, place value, addition and subtraction strategies, multiplication and
19 division strategies, and the concepts of time, money, and length;

20 (15) "Place value understanding" means the understanding of representations and
21 concepts necessary to successfully process multi-digit numbers;

22 (16) "Spatial reasoning" means the capacity to mentally generate, transform, and
23 rotate a visual image and thus understand and recall spatial relationships
24 between objects;

25 (17) "Subitizing" means quickly recognizing and naming how many objects are in a
26 group without counting; and

27 (18) "Universal screener" means a process of providing a brief assessment to all

1 students within a grade level to assess the students' performance in mathematical
2 content and practices.

3 ➔ SECTION 4. A NEW SECTION OF KRS 158.840 TO 158.844 IS CREATED
4 TO READ AS FOLLOWS:

5 (1) Notwithstanding any other statute or administrative regulation to the contrary,
6 the Kentucky Board of Education shall promulgate administrative regulations in
7 accordance with KRS Chapter 13A to define and establish a multitiered system of
8 supports that shall include evidence-based mathematics instruction, intervention,
9 and instructional strategies for district-wide use for students in kindergarten
10 through grade three (3).

11 (2) By November 1, 2027, and each year thereafter, the department shall submit the
12 implementation status of the multitiered system of supports required pursuant to
13 subsection (1) of this section for all school districts to the Legislative Research
14 Commission for referral to the Interim Joint Committee on Education.

15 (3) The department shall provide technical assistance and training to local districts to
16 assist in the implementation of the district-wide, multitiered system of supports as
17 a means to identify and assist any student experiencing difficulty in mathematics.

18 (4) The technical assistance and training shall be designed to improve:

19 (a) The use of specific screening processes and diagnostic assessments to
20 identify student strengths and needs;

21 (b) The use of universal screening and diagnostic data for implementing
22 instruction and intervention, as needed;

23 (c) The use of valid and reliable evidence-based instructional strategies and
24 interventions for mathematics education;

25 (d) Progress monitoring of student performance; and

26 (e) Accelerated, intensive, direct instruction that addresses students' individual
27 differences, including advanced learners, and enables students that are

1 experiencing difficulty to catch up with typically performing peers.

2 (5) (a) By January 1, 2026, each superintendent or public charter school board of
3 directors shall select:

4 1. At least one (1) universal screener for mathematics that is determined
5 by the department to be valid and reliable to be administered to all
6 students in kindergarten through grade three (3); and

7 2. At least one (1) diagnostic assessment for mathematics that is
8 determined by the department to be reliable and valid to be
9 administered as part of a multitiered system of supports for students in
10 kindergarten through grade three (3).

11 (b) Each superintendent or public charter school board of directors shall adopt
12 an evidence-based curriculum along with high-quality instructional
13 resources for mathematics that is determined by the department to be
14 reliable, valid, and aligned to Kentucky academic standards for
15 mathematics required by KRS 158.6453 for kindergarten through grade
16 three (3).

17 (c) All teachers of students in kindergarten through grade three (3), including
18 public charter school teachers, shall be trained on any mathematics
19 universal screener and diagnostic assessment selected by the superintendent
20 or public charter school board prior to administration of the assessment.

21 The training shall address:

22 1. How to properly administer the mathematics universal screener and
23 diagnostic assessment;

24 2. How to interpret the results of the mathematics universal screener and
25 diagnostic assessment to identify students needing interventions;

26 3. How to use the assessment results to design instruction and
27 interventions;

- 1 4. The use of the assessment to monitor the progress of student
2 performance; and
- 3 5. The use of accelerated, intensive, and direct instruction that addresses
4 students' individual differences and enables students to achieve
5 proficiency in mathematics, including but not limited to daily, one-on-
6 one instruction.
- 7 (6) Beginning with the 2026-2027 school year, a universal screener determined by
8 the department to be valid and reliable shall be given in the first thirty (30)
9 calendar days of the school year to each student in kindergarten through grade
10 three (3) at a public school or public charter school.
- 11 (7) Those students determined to be at risk for not meeting grade-level benchmarks
12 in mathematics for kindergarten through grade three (3) based on the universal
13 screener shall be given a mathematics diagnostic assessment determined by the
14 department to be valid and reliable to identify the individual student deficits in
15 numeracy and other mathematical content and practices as listed in subsection
16 (1) of this section in the first forty-five (45) calendar days of the school year.
- 17 (8) A mathematics improvement plan shall be developed and implemented in the first
18 sixty (60) calendar days of the school year by a mathematics improvement team
19 for any student in kindergarten through grade three (3) identified as needing
20 accelerated interventions to progress toward proficient performance in
21 mathematics. The mathematics improvement plan shall require:
- 22 (a) Intensive intervention that includes effective instructional strategies and
23 high-quality instructional resources necessary to help the student make
24 accelerated progress toward proficient performance in mathematics and
25 become ready for the next grade, including but not limited to daily, one-on-
26 one instruction with students the most in need provided by certified teachers
27 specifically trained and most qualified to provide one-on-one instruction in

- 1 numeracy; and
- 2 (b) Written quarterly progress reports provided by the school to a parent or
- 3 guardian of any student subject to a mathematics improvement plan. The
- 4 written quarterly progress report for the mathematics improvement plan
- 5 may be included in the school's existing quarterly student progress report;
- 6 (9) Beginning in the 2026-2027 school year, if a student's rate of progress toward
- 7 proficient performance in mathematics needs accelerated interventions as
- 8 demonstrated by the results of an approved universal screener and mathematics
- 9 diagnostic assessment, the local school district shall provide:
- 10 (a) Enrichment programs using evidence-based mathematics instruction and
- 11 other strategies;
- 12 (b) Intensive instructional services, progress monitoring measures, and
- 13 supports; and
- 14 (c) Parents and legal guardians of students identified for accelerated
- 15 interventions in mathematics with information on how to encourage
- 16 mathematics success at home.
- 17 (10) By September 1, 2025, if funds are available, the department shall establish
- 18 teacher academies or coaching models for teachers of students in kindergarten
- 19 through grade three (3). The teacher academies or coaching models shall be
- 20 related to evidence-based practices in instruction, instructional materials, and
- 21 assessment in mathematics.
- 22 (11) The department shall develop and maintain a web-based resource providing
- 23 teachers access to:
- 24 (a) Screening and diagnostic tools, universal screeners, screening processes,
- 25 and diagnostic assessments;
- 26 (b) Evidence-based curriculum;
- 27 (c) High quality instructional resources; and

1 (d) General supports and lesson plans.

2 (12) The department shall encourage districts to utilize both state and federal funds,
 3 as appropriate, to implement a district-wide multitiered system of supports,
 4 including high-quality mathematics instruction and instructional resources,
 5 evidence-based intervention strategies and materials, aligned curriculum-based
 6 professional learning, and ongoing, job-embedded coaching supports.

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

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

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

14 (a) ~~"Concepts" means mathematical ideas that serve as the basis for~~
 15 ~~understanding mathematics;~~

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

18 (c) ~~"Mathematics coach" means a mathematics leader whose primary~~
 19 ~~responsibility is to provide ongoing support for one (1) or more mathematics~~
 20 ~~teachers. The role of the coach is to improve mathematics teaching practices~~
 21 ~~by working with teachers in their classrooms, observing and providing~~
 22 ~~feedback to them, modeling appropriate teaching practices, conducting~~
 23 ~~workshops or institutes, establishing learning communities, and gathering~~
 24 ~~appropriate and useful resources;~~

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

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

4 ~~(f) "Mathematics leader" means any educator with a specialization in~~
5 ~~mathematics who:~~

6 ~~1. Serves in a supervisory capacity, such as mathematics department chair,~~
7 ~~school-based mathematics specialist, or district mathematics supervisor~~
8 ~~or coordinator; or~~

9 ~~2. Regularly conducts or facilitates teacher professional development, such~~
10 ~~as higher education faculty or other mathematics teachers;~~

11 ~~(g) "Mathematics mentor" means an experienced mathematics coach who~~
12 ~~typically works with beginning or novice teachers only. The responsibilities~~
13 ~~and roles of the mentor are the same as those of the coach;~~

14 ~~(h) "Numeracy" means the development of the basic concepts which include~~
15 ~~counting, place value, addition and subtraction strategies, multiplication and~~
16 ~~division strategies, and the concepts of time, money, and length. To be~~
17 ~~numerate is to have and be able to use appropriate mathematical knowledge,~~
18 ~~concepts, skills, intuition, and experience in relationship to every day life;~~

19 ~~(i) "Relationships" means connections of mathematical concepts and skills within~~
20 ~~mathematics; and~~

21 ~~(j) "Skills" means actions of mathematics.~~

22 ~~(2) The Committee for Mathematics Achievement is hereby created for the purposes~~
23 ~~of developing a multifaceted strategic plan to improve student achievement in~~
24 ~~mathematics at all levels of schooling, prekindergarten through postsecondary and~~
25 ~~adult. At a minimum the plan shall address:~~

26 ~~(a) Evidence-based~~[Challenging]~~ curriculum that is aligned prekindergarten~~
27 ~~through postsecondary, including consensus among high school teachers and~~

- 1 postsecondary education faculty about expectations, curriculum, and
2 assessment;
- 3 (b) Attitudes and beliefs of teachers about mathematics;
- 4 (c) Teachers' knowledge of mathematics;
- 5 (d) Diagnostic assessment, intervention services, universal screeners, and
6 instructional strategies;
- 7 (e) Shortages of teachers of mathematics, including incentives to attract strong
8 candidates to mathematics teaching;
- 9 (f) Statewide institutes that prepare cadres of mathematics leaders in local school
10 districts, which may include highly skilled retired mathematics teachers, to
11 serve as coaches and mentors in districts and schools;
- 12 (g) Cohesive continuing education options for experienced mathematics
13 classroom teachers;
- 14 (h) Closing the student achievement gap among various student subpopulations;
- 15 (i) Curriculum expectations and assessments of students among the various
16 school levels, prekindergarten, primary, elementary, middle, and high school;
- 17 (j) Curriculum expectations and assessments for adult education
18 centers~~[Content standards for adult education centers providing mathematics~~
19 ~~curricula]~~;
- 20 (k) Introductory postsecondary education mathematics courses that are
21 appropriate to the wide array of academic programs and majors;
- 22 (l) Research to analyze further the issues of transition from high school or High
23 School Equivalency Diploma programs to postsecondary education
24 mathematics; and
- 25 (m) The early mathematics testing program under KRS 158.803.
- 26 Other factors may be included in the strategic plan as deemed appropriate by the
27 committee to improve mathematics achievement of Kentucky students.

1 ~~(2)~~~~(3)~~ ~~[In carrying out its responsibility under subsection (2)(f) of this section, the~~
2 ~~committee shall:~~

3 ~~(a) Design a statewide professional development program that includes summer~~
4 ~~mathematics institutes at colleges and universities, follow-up, and school-~~
5 ~~based support services, beginning no later than June 1, 2006, to prepare teams~~
6 ~~of teachers as coaches and mentors of mathematics at all school levels to~~
7 ~~improve student achievement. Teachers shall receive training in diagnostic~~
8 ~~assessment and intervention. The statewide initiative shall be funded, based~~
9 ~~on available funds, from the Teachers' Professional Growth Fund described in~~
10 ~~KRS 156.553. The design shall:~~

- 11 ~~1. Define the curricula focus;~~
- 12 ~~2. Build on the expertise of specific colleges and universities;~~
- 13 ~~3. Place emphasis on mathematics concepts, skills and relationships,~~
14 ~~diagnostic assessment, intervention services, and instructional strategies;~~
- 15 ~~4. Identify quality control measures for the delivery of each institute;~~
- 16 ~~5. Establish evaluation procedures for the summer institutes and the other~~
17 ~~professional development components;~~
- 18 ~~6. Provide updates and networking opportunities for coaches and mentors~~
19 ~~throughout the school year; and~~
- 20 ~~7. Define other components within the initiative that are necessary to meet~~
21 ~~the goal of increasing student achievement in mathematics;~~

22 ~~(b) Require schools and districts approved to have participants in the mathematics~~
23 ~~leader institutes to provide assurances that:~~

- 24 ~~1. The district and schools have, or will develop, local mathematics~~
25 ~~curricula and assessments that align with state standards for~~
26 ~~mathematics;~~
- 27 ~~2. There is a local commitment to build a cadre of mathematics leaders~~

1 ~~within the district;~~

2 ~~3.—The district and participating schools will provide in-school support for~~
3 ~~coaching and mentoring activities;~~

4 ~~4.—The mathematics teachers are willing to develop classroom assessments~~
5 ~~that align with state assessments; and~~

6 ~~5.—Students who need modified instructional and intervention services will~~
7 ~~have opportunity for continuing education services beyond the regular~~
8 ~~school day, week, or year; and~~

9 ~~(c)—In addition to the conditions specified in paragraph (b) of this subsection, the~~
10 ~~committee shall make recommendations to the Kentucky Department of~~
11 ~~Education and the Kentucky Board of Education for criteria to be included in~~
12 ~~administrative regulations promulgated by the board which define:~~

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

15 ~~2.—The application process and review;~~

16 ~~3.—The responsibilities of schools and districts, including but not limited to~~
17 ~~matching funds requirements, released or extended time for coaches and~~
18 ~~mentors during the school year, continuing education requirements for~~
19 ~~teachers and administrators in participating schools, data to be collected,~~
20 ~~and local evaluation requirements; and~~

21 ~~4.—Other recommendations requested by the Kentucky Department of~~
22 ~~Education.~~

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

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

26 (b) The president of the Council on Postsecondary Education or his or her
27 designee;

- 1 (c) The president of the Association of Independent Kentucky Colleges and
 2 Universities or his or her designee;
- 3 (d) ~~[(The executive director of the Education Professional Standards Board or his~~
 4 ~~or her designee;~~
- 5 (e) ~~—]~~The secretary of the Education and Labor Cabinet or his or her designee;
- 6 ~~(e)~~~~[(f)]~~ **Four (4) representatives**~~[A representative]~~ with a specialty in
 7 mathematics or mathematics education who **have**~~[has]~~ expertise and
 8 experience in professional development, especially with coaching and
 9 mentoring of teachers, from **any of the**~~[each of the nine (9)]~~ public
 10 postsecondary education institutions defined in KRS 164.001. The
 11 representatives shall be selected by mutual agreement of the president of the
 12 Council on Postsecondary Education and the commissioner of education;
- 13 ~~(f)~~~~[(g)]~~ **One (1)**~~[Two (2)]~~ adult education **mathematics instructor**~~[instructors]~~
 14 selected by the secretary of the Education and Labor Cabinet;
- 15 ~~(g)~~~~[(h)]~~ Two (2) elementary, two (2) middle, and two (2) high school
 16 mathematics teachers, appointed by the **commissioner of education;**~~[board of~~
 17 ~~the statewide professional education association having the largest paid~~
 18 ~~membership with approval from their respective local principals and~~
 19 ~~superintendents of schools; and]~~
- 20 ~~(h)~~~~[(i)]~~ Three (3) school administrators **or building-level mathematics**
 21 **instructional coaches**, with one (1) each representing elementary, middle, and
 22 high school, appointed by the **commissioner of education;**~~[board of the~~
 23 ~~statewide administrators' association having the largest paid membership with~~
 24 ~~approval from their respective local superintendents of schools.]~~
- 25 ~~(i)~~ **Two (2) district administrators or district-level mathematics instructional**
 26 **coaches appointed by the commissioner of education;**
- 27 ~~(j)~~ **The executive director of**~~[When]~~ the Center for Mathematics created under

1 KRS 164.525 or his or her designee; ~~becomes operational, the executive~~
 2 ~~director of the center shall be added to the committee, which shall then be~~
 3 ~~composed of twenty-six (26) members. Appointments to the committee shall~~
 4 ~~be made no later than thirty (30) days following March 18, 2005, and the first~~
 5 ~~meeting of the committee shall occur no later than thirty (30) days following~~
 6 ~~appointment of the members.]~~

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

8 (l) The executive director of the Partnership Institute for Math and Science
 9 Education Reform or his or her designee.

10 ~~(3)~~~~(5)~~ A majority of the ~~full~~ membership present shall constitute a quorum.

11 ~~(4)~~~~(6)~~ Each member of the committee, other than members who serve by virtue of
 12 their positions, shall serve for a term of three (3) years or until a successor is
 13 appointed and qualified, ~~except that the initial appointments shall be made in the~~
 14 ~~following manner: six (6) members shall serve a one (1) year term, six (6) members~~
 15 ~~shall serve a two (2) year term, and eight (8) members shall serve a three (3) year~~
 16 ~~term].~~

17 ~~(5)~~~~(7)~~ A ~~temporary chair of the committee shall be appointed prior to the first~~
 18 ~~meeting of the committee through consensus of the president of the Council on~~
 19 ~~Postsecondary Education and the commissioner of education, to serve ninety (90)~~
 20 ~~days after his or her appointment. Prior to the end of the ninety (90) days, the~~
 21 ~~committee shall elect a chair by majority vote. The temporary chair may be a~~
 22 ~~nominee for the chair by majority vote. Thereafter, a]chair of the committee shall~~
 23 ~~be elected each calendar year. An individual may not serve as chair for more than~~
 24 ~~three (3) consecutive years. The chair shall be the presiding officer of the~~
 25 ~~committee, and coordinate the functions and activities of the committee.~~

26 ~~(6)~~~~(8)~~ The committee shall be attached to the Kentucky Department of Education for
 27 administrative purposes. The commissioner of education shall~~may~~ contract with a

1 mathematics-trained professional to provide part-time staff support to the
2 committee. The commissioner of education and the president of the council shall
3 reach consensus in the selection of a person to fill the position. The person selected
4 shall have a graduate degree, a mathematics or mathematics education major, and
5 teaching or administrative experience in elementary and secondary education. The
6 person shall not be a current employee of any entity represented on the committee.
7 The department shall provide office space and other resources necessary to support
8 the staff position and the work of the committee.

9 ~~(7)~~⁽⁹⁾ The committee, under the leadership of the chair, may organize itself into
10 appropriate subcommittees and work structures to accomplish the purposes of the
11 committee.

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

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

24 ~~(10)~~⁽¹²⁾ The committee shall:

25 ~~(a) Present a draft strategic plan addressing the requirements in subsection (1) of~~
26 ~~this section and other issues that arose during the work of the committee to the~~
27 ~~Education Assessment and Accountability Review Subcommittee no later~~

1 ~~than August 2005;~~

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

5 ~~(e)~~ provide a final written report of committee activities ***and progress regarding***
 6 ***the strategic plan required under subsection (1) of this section*** to the Interim
 7 Joint Committee on Education and the Legislative Research Commission by
 8 ***May 1, 2025***~~[December 1, 2006].~~

9 ~~(11)~~~~(13)~~ The committee shall have ongoing responsibility for providing advice and
 10 guidance to policymakers in the development of statewide policies and in the
 11 identification and allocation of resources to improve mathematics achievement. In
 12 carrying out this responsibility, the committee shall periodically review the strategic
 13 plan and make modifications as deemed appropriate and report those to the Interim
 14 Joint Committee on Education.

15 ~~(12)~~~~(14)~~ The committee shall collaborate with the Center for Mathematics to ensure
 16 that there is ongoing identification of research ***and evidence***-based intervention
 17 programs for K-12 students who have fallen behind in mathematics, rigorous
 18 mathematics curricula that prepare students for the next level of schooling, research
 19 ***and evidence***-based professional development models that prepare teachers in
 20 mathematics and pedagogy, and strategies for closing the gap between high school
 21 or a High School Equivalency Diploma program and postsecondary mathematics
 22 preparation.

23 ➔SECTION 6. A NEW SECTION OF KRS 158.840 TO 158.844 IS CREATED
 24 TO READ AS FOLLOWS:

25 ***(1) The Kentucky numeracy counts fund is hereby created for the purpose of training***
 26 ***and supporting teachers to improve the mathematics content and practices of***
 27 ***students in kindergarten through grade three (3), as set forth in subsection (2) of***

1 this section and subsection (12) of Section 4 of this Act. The fund shall consist of
2 all moneys received from state appropriations, gifts, grants, and federal funds for
3 this purpose. The department shall administer the fund.

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

8 (3) The department shall create a mathematics coaching program using moneys
9 appropriated to or otherwise received by the Kentucky numeracy counts fund.

10 The program shall:

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

12 (b) Determine the effectiveness of intensive data-focused professional
13 development; and

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

15 (4) (a) The department shall provide grants to local school districts and public
16 charter schools. The grant shall only be used to purchase approved high-
17 quality, research and evidence-based curriculum aligned to kindergarten
18 through grade three (3) academic standards in mathematics and
19 expenditures for curriculum-based professional learning to implement new
20 curriculum.

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

23 1. Submit an application in accordance with paragraph (c) of this
24 subsection; and

25 2. Agree to adopt a common comprehensive mathematics program that is
26 determined by the department to be reliable, valid, and aligned to
27 mathematics standards required by KRS 158.6453 and outlined in an

1 administrative regulation promulgated by the Kentucky Board of
2 Education.

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

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

8 2. The timeline for the rollout of upgraded curriculum materials for core
9 instruction in classrooms.

10 (d) Available grant funding shall be distributed to eligible applicants based on a
11 rubric developed by the department. The rubric shall consider the
12 information provided in accordance with paragraphs (b) and (c) of this
13 subsection and prioritize applications from local school districts or public
14 charter schools:

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

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

19 3. That propose comprehensive plans most likely to increase student
20 achievement in mathematics.

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

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

27 (6) Any interest earned on moneys in the fund shall become part of the fund and

1 shall not lapse.

2 ➔SECTION 7. A NEW SECTION OF KRS CHAPTER 164 IS CREATED TO
3 BE NUMBERED AS KRS 164.3061 AND TO READ AS FOLLOWS:

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

6 (2) Beginning with the 2025-2026 school year, postsecondary institutions offering
7 teacher preparation programs for elementary regular education shall include
8 kindergarten through grade three (3) evidence-based instructional strategies,
9 department-identified valid and reliable high-quality resources for mathematics
10 instruction related to Section 4 of this Act, and:

11 (a) Evidence-based instructional strategies determined by the department to be
12 effective at improving student learning for the range of students in their
13 classrooms, including students needing to make progress toward
14 proficiency, exceptional students, and students who are multilingual
15 learners;

16 (b) High-quality instructional resources as determined by the department to be
17 effective at improving student learning for the range of students in their
18 classrooms, including students needing to make progress toward
19 proficiency, exceptional students, and students who are multilingual
20 learners;

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

23 (d) Progress monitoring of student performance; and

24 (e) Field experience and student teaching placements with teachers that model,
25 and supervisors with knowledge of, paragraphs (a) to (d) of this subsection.

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

27 (a) Develop and maintain a list of approved teacher preparation assessments

1 that are determined by the board to be an effective evaluation of
2 mathematics instruction, content and practice standards, and skills; and

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

5 (4) The Education Professional Standards Board shall report program data to an
6 external evaluator for analysis of postsecondary teacher preparation programs
7 with the goal of using the results to help increase the success of new teacher
8 candidates in demonstrating mathematics instruction, content knowledge, and
9 skills.

10 (5) The Education Professional Standards Board shall report to the Legislative
11 Research Commission for referral to the Interim Joint Committee on Education
12 the results provided by the external evaluator's analysis and data on all
13 assessments required for certification, including the number of students testing,
14 the number of students passing, and the number of times an individual student
15 takes a test prior to passing.

16 ➔Section 8. This Act may be cited as the Kentucky Numeracy Counts Act.