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TO: Members of the Professional Standards and Teacher Education Board

FROM: Jean E. Satterfield *JES*

DATE: April 8, 2010

SUBJECT: Mathematics Instructional Leader, Proposed Certification Areas

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**PURPOSE:**

The purpose of this item is to provide additional information regarding two proposed, new certification areas, Mathematics Instructional Leader, Prek-6 and Mathematics Instructional Leader, Grades 4-9.

**BACKGROUND INFORMATION:**

At your meetings in January and February, staff presented a brief overview of the status of the Work Group convened to develop a new certification previously referred to as “elementary Mathematics specialist.” Since your February 4 meeting, the Work Group has made substantial progress in determining the components of this new area.

At its February 22 meeting, the Work Group agreed that the certification area should be named: Mathematics Instructional Leader, Pre K- 6; they further determined the following essential components:

- Mathematics Instructional Leader would be an endorsement only; not an initial certification;
- Three years of satisfactory experience in the teaching of mathematics is a prerequisite;
- Additional credit hours in mathematics course work in three areas: Content, Pedagogy, and Leadership are required and may include Continuing Professional Development (CPD) credits, post-baccalaureate, or graduate credits depending on the grade bands; and
- Three credits in a supervised internship or practicum.

Also at its February meeting, the Work Group expressed strong interest in developing a similar certification for Mathematics Instructional Leader, 4-9. The primary difference for this area would be in the requisite course work. They requested that this be presented for your direction; based on your consensus, staff was directed to continue discussion with the Work Group for a proposed certification for the middle school grade band.

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**SUMMARY:**

The Work Group convened to develop a new certification area, formerly known as Elementary Mathematics Specialist, has proposed a change in the name of the proposed certification area to mathematics instructional leader, Prek-3, and has specified the major requirements for this certification which are aligned with recently-adopted preparation and credentialing standards. Additionally, they have presented a second certification for Mathematics Instructional Leader, grades 4-9, with requirements which also are standards-based.

**ACTION:**

This item is presented for discussion only.

JES: jhe

Attachments

**COMAR13A.12.02.25 Mathematics Instructional Leader (Grades PreK-6)**

To be add an endorsement as Mathematics Instructional Leader, grades PreK-6, an applicant shall:

- A. Hold a valid, professional certificate; and
- B. Complete a minimum of 18 semester hours of post-baccalaureate credit, or Department-approved Continuing Professional Development credits, which include the following areas:
  - 1. Content knowledge for teaching mathematics, including numbers and operations, algebra and functions, geometry and measurement, and data analysis and probability;
  - 2. Pedagogical knowledge for teaching mathematics, including learners and learning, teaching, curriculum, and assessment;
  - 3. Leadership knowledge and skills; and
  - 4. At least 3 semester hours or the equivalent in a supervised practicum or school-based internship in which the applicant works with a range of students in grades PreK-6 and adult learners in a variety of professional development settings.
- D. Present verification of 27 months of satisfactory mathematics teaching experience.

**COMAR13A.12.02.26 Mathematics Instructional Leader (Grades 4-9)**

To add an endorsement as Mathematics Instructional Leader, grades 4-9, an applicant shall:

C. Hold a valid, professional certificate with certification in Middle School Mathematics; and

D. Complete a minimum of 21 semester hours of post-baccalaureate credit, or Department-approved Continuing Professional Development credits, which include the following areas:

1. Content knowledge for teaching mathematics, including number and operations, algebra and functions, geometry and measurement, data analysis and probability, calculus, and discrete mathematics.

2. Pedagogical knowledge for teaching mathematics, including learners and learning, teaching, curriculum, and assessment;

3. Leadership knowledge and skills; and

4. At least 3 semester hours or the equivalent in a supervised practicum or school-based internship in which the candidate works with a range of students in grades 4-9 and adult learners in a variety of professional development settings.

E. Present verification of 27 months of satisfactory mathematics teaching experience.