

Secondary Mathematics Content Knowledge Evaluation Form
Modified 2014

University of Montana Western
Department of Education

To be completed by the *Supervising Teacher or Principal*,
as part of the *Student Teaching or Internship evaluation*

This form may be completed in an on-going basis,
throughout the *Student Teaching or Internship semester*

Based on the National Standards of the National Council of Teachers of Mathematics (NCTM)
http://www.nctm.org/uploadedFiles/Math_Standards/NCTM%20NCATE%20Standards%202012%20-%20Secondary%20%282%29.pdf

Student Teacher/Intern name: _____

Student Teacher/Intern Signature: _____ Date _____

Supervisor name: _____

Supervisor Signature _____ Date: _____

Ratings 0= unacceptable 1=developing 2=proficient 3=professional

1. **Problem Solving.** Candidate knows, understands and applies the process of mathematical problem solving as part of instruction.

Date: Evidence:

Date: Evidence:

Rating: 0 1 2 3

2. **Reasoning.** Candidate demonstrates reasoning, and constructs and evaluates mathematical arguments and uses them to develop mathematical understanding.

Date: Evidence:

Date: Evidence:

Rating: 0 1 2 3

3. Mathematical Communication. Candidate uses mathematical thinking and language to express mathematical ideas and foster the same behaviors in students.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

4. Mathematical Connections. Candidate recognizes and makes connections between and among mathematical ideas and in contexts outside mathematics to build mathematical understanding.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

5. Mathematical Representation. Candidate uses varied mathematical models and representations to support and deepen students' mathematical understanding and ability to solve real world problems.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

6. Instructional Tools. Candidate appropriately implements the use of technology, manipulatives, and other instructional tools in teaching and learning mathematics.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

7. Adolescent Development and Dispositions. Candidate supports a positive disposition toward mathematical processes and mathematical learning, and exhibits an understanding of adolescent learning, development, and behavior.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

8. Mathematics Pedagogy. Candidate possesses a deep understanding of how students learn mathematics and of the pedagogical knowledge specific to mathematics teaching and learning as presented in research. This is demonstrated in the development of lesson and unit plans that implement a variety of instructional strategies specific to the cultural diversity of the class.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

9. Content Knowledge. Candidate demonstrates and applies knowledge of mathematical concepts in whatever mathematical domain (Numbers and Operations, Algebra, Geometry, Trigonometry, Statistics, Probability, Calculus, and Discrete Mathematics) being studied.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

10. Assessment. Candidate demonstrates the appropriate use of formative and summative assessments to design instruction, measure the effectiveness of instruction, and monitor and report students' mathematical understanding.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

11. Equitable and Ethical. Candidate demonstrates the equitable and ethical treatment of and high expectations for all students.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

12. Professional Development. Candidate participates in professional development activities related to the learning and teaching of mathematics such as conferences, collaborative discussions, and reading professional literature.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

13. Curriculum and Standards. Candidate demonstrates the knowledge and implications of the curriculum and standards for mathematical instruction across all grades.

Date: **Evidence:**

Date: **Evidence:**

Rating: 0 1 2 3

Average Rating:

(Add all ratings, then divide by 13) _____

Additional Comments (Strengths and Areas for Improvement):