

**UAF SCHOOL OF EDUCATION
SECONDARY POST-BACCALUAREATE LICENSURE PROGRAM
MATHEMATICS CONTENT OBSERVATION
FORM R**

Disciplinary Standard: Mathematics

Intern: _____

Teachers who are licensed to teach mathematics at all school levels should possess the knowledge, capabilities, and dispositions to organize and provide instruction at the appropriate school level for the study of mathematics. Teachers of mathematics at all school levels should provide developmentally appropriate experiences as they guide learners in their study of mathematics.

1= does not meet expectations 2=developing 3=meets expectations 4=exceeds expectations

Candidates who indicate their capabilities for teaching mathematics do the following:

1. **Diverse Learners:** use the knowledge of student diversity to affirm and support full participation and continued study of mathematics by all students. This diversity includes gender, culture, ethnicity, socioeconomic background, language, special needs, and mathematical learning styles.

Date: Evidence:

Date: Evidence:

Overall Rating:

2. **Technology:** use appropriate technology to support the learning of mathematics. This technology includes but is not limited to computers and computer software, calculators, distance learning, electronic information resources, and a variety of relevant multimedia.

Date: Evidence:

Date: Evidence:

Overall Rating:

3. **Assessment:** use formative and summative methods to determine students' understanding of math and to monitor their own teaching effectiveness. They are careful to align their instructional and assessment practices.

Date: Evidence:

Date: Evidence:

Overall Rating:

4. **Problem Solving:** identify, teach, and model problem solving in grades 7-12 in the area of communication.

Date: Evidence:

Date: Evidence:

Overall Rating:

5. **Materials:** use a variety of physical and visual materials for exploration and development of mathematical concepts in grades 7-12.

Date: Evidence:

Date: Evidence:

Overall Rating:

6. **Resources:** use a variety of print and electronic resources.

Date: Evidence:

Date: Evidence:

Overall Rating:

7. **Student Groupings:** know when and how to use student groupings such as collaborative groups, cooperative learning, and peer teaching.

Date: Evidence:

Date: Evidence:

Overall Rating:

8. **Strategies:** use instructional strategies based on current research as well as national state, and local standards relating to mathematics instruction.

Date: Evidence:

Date: Evidence:

Overall Rating:

9. **Teamwork:** work on interdisciplinary team and in an interdisciplinary environment.

Date: Evidence:

Date: Evidence:

Overall Rating:

10. **Professionalism:** are involved in the professional community of mathematics educators.

Date: Evidence:

Date: Evidence:

Overall Rating:

Additional Comments