IPTS Standard	0	1 - Unsatisfactory	2 - Basic	3 - Proficient	4 - Exceptional
			Expected Range		
4c: Incorporate knowledge of individual differences and the cultural and language diversity that exists within classrooms and include culturally relevant perspectives as a means to motivate and engage students.	Not Observed	The candidate does not demonstrate the ability to incorporate knowledge of individual differences and the cultural and language diversity that exists within classrooms and include culturally relevant perspectives as a means to motivate and engage students.	The candidate demonstrates limited ability to incorporate knowledge of individual differences and the cultural and language diversity that exists within classrooms and include culturally relevant perspectives as a means to motivate and engage students.	The candidate demonstrates the ability to incorporate knowledge of individual differences and the cultural and language diversity that exists within classrooms and include culturally relevant perspectives as a means to motivate and engage students.	The candidate demonstrates the ability to incorporate knowledge of individual differences and the cultural and language diversity that exists within classrooms and include culturally relevant perspectives as a means to motivate and engage students. The candidate seeks out supplemental resources to meet the needs of diverse students.
4a: Exhibit knowledge of adolescent learning, development, and behavior and demonstrate a positive disposition toward mathematical processes and learning	Not Observed	Lacks knowledge of theories and philosophies of learning and human development. Minimal knowledge about how students learn. Demonstrates a negative disposition towards mathematical processes and learning.	Demonstrates limited knowledge of theories and philosophies of learning and human development. Occasionally applies theories to the whole class rather than to individual students. Demonstrates a neutral disposition towards mathematical processes and learning.	Consistently demonstrates appropriate knowledge of theories and philosophies of learning and human development. Applies theories to individual and groups of students. Demonstrates a positive disposition towards mathematical processes and learning	Demonstrates extensive knowledge of theories and philosophies of learning and human development. Observes learners and seeks resources to adjust teaching. Systematically seeks out information about the learner from several sources. Uses information about learner interest to engage learners in a variety of learning experiences to capitalize on strengths and build on weaknesses. Demonstrates a positive disposition towards mathematical processes and learning and helps students develop a positive learning disposition and persistence.

2a: Use problem solving to develop conceptual understanding, make sense of a wide variety of problems and persevere in solving them, apply and adapt a variety of strategies in solving problems confronted within the field of mathematics and other contexts, and formulate and test conjectures in order to frame generalizations.	Not Observed	The candidate does not demonstrate the ability to use problem solving to develop conceptual understanding, make sense of a wide variety of problems and persevere in solving them, apply and adapt a variety of strategies in solving problems confronted within the field of mathematics and other	The candidate demonstrates limited ability to use problem solving to develop conceptual understanding, make sense of a wide variety of problems and persevere in solving them, apply and adapt a variety of strategies in solving problems confronted within the field of mathematics and other contexts, and formulate and test conjectures in	The candidate demonstrates the ability to use problem solving to develop conceptual understanding, make sense of a wide variety of problems and persevere in solving them, apply and adapt a variety of strategies in solving problems confronted within the field of mathematics and other contexts, and formulate and test conjectures in order to frame generalizations.	The candidate demonstrates the ability to use a wide variety of problem solving strategies to develop conceptual understanding, make sense of a wide variety of problems and persevere in solving them, apply and adapt a wide variety of strategies in solving problems confronted within the field of mathematics and other contexts, and formulate and test conjectures in order to
		contexts, and formulate and test conjectures in order to frame generalizations.	order to frame generalizations.		frame generalizations.
2c: Formulate, represent, analyze, and interpret mathematical models derived from real-world contexts or mathematical problems	Not Observed	The candidate does not demonstrate the ability to formulate, represent, analyze, and interpret mathematical models derived from real-world contexts or mathematical problems.	The candidate demonstrates limited ability to formulate, represent, analyze, and interpret mathematical models derived from real-world contexts or mathematical problems.	The candidate demonstrates the ability to formulate, represent, analyze, and interpret mathematical models derived from real- world contexts or mathematical problems.	The candidate demonstrates the ability to formulate, represent, analyze, and interpret mathematical models derived from real- world contexts or mathematical problems to solve a wide variety of problems and formulates and tests conjectures. The learners are engaged in applying methods of inquiry and standards of evidence used in the discipline.

2e: Demonstrate the interconnectedness of mathematical ideas and how they build on one another and recognize and apply mathematical connections among mathematical ideas and across various content areas and real-world contexts.	Not Observed	The candidate does not understand or explain the interconnectedness of mathematical ideas and how they build on one another and recognize and apply mathematical connections among mathematical ideas and across various content areas and real-world contexts.	The candidate demonstrates limited capacity to understand and explain the interconnectedness of mathematical ideas and how they build on one another and recognize and apply mathematical connections among mathematical ideas and across various content areas and real-world contexts.	The candidate understands and explains the interconnectedness of mathematical ideas and how they build on one another and recognize and apply mathematical connections among mathematical ideas and across various content areas and real-world contexts	The candidate understands and explains the interconnectedness of mathematical ideas and how they build on one another and recognize and apply mathematical connections among mathematical ideas and across various content areas and real-world contexts. Organization, explanation and presentation of the content contribute to student understanding. Learners are encouraged to see relationship across disciplines,
					teacher engages learners in applying content knowledge and skills in authentic contexts.
2f: Model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.	Not Observed	The candidate does not model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.	The candidate demonstrates limited ability to model how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.	The candidate models how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing.	The candidate models how the development of mathematical understanding within and among mathematical domains intersects with the mathematical practices of problem solving, reasoning, communicating, connecting, and representing. Organization, explanation and presentation of the content contribute to student understanding. The learners are engaged in applying methods of inquiry and standards of evidence used in the discipline. Learners are encouraged to see relationship across domains.

3b: Analyze and consider	Not	Does not know how to	Minimal attempts at	Knows how to accesses the	Regularly accesses the tools
research in planning for and	Observed	access the tools and	accessing the tools and	tools and knowledge related	and knowledge related to
leading students in rich		knowledge related to	knowledge related to latest	to latest findings (e.g.,	latest findings (e.g., research,
mathematical learning		latest findings (e.g.,	findings (e.g., research,	research, practice,	practice, methodologies) and
experiences.		research, practice,	practice, methodologies)	methodologies) and	technologies related to
		methodologies) and	and technologies related to	technologies related to in	mathematics. Formative and
		technologies related to	in mathematics. Lesson	the mathematics disciplines,	summative data informs the
		in mathematics the	plans regularly fail to	evaluates and modifies	lesson plans. Lesson plans are
		disciplines. Lesson plans	consider student data	instructional resources for	appropriate for learners
		fail to consider student	(formative and summative)	Lesson plans consistently	considering the available
		data (formative and	and available research	reflect the use of research	research and data related to
		summative) and	related to the teaching of	and student data (formative	the teaching of mathematics.
		available research	mathematics. Some of the	and summative). Lesson	Plans indicate that
		related to the teaching	lesson plans are	plans are appropriate for	adjustments are made for
		of mathematics. Plans	inappropriate for learners,	learners considering the	recurring learning needs. Plans
		are inappropriate for	considering the research	available research and data	use grouping to provide
		the learners,	and data.	related to the teaching of	additional supports for
		considering the		mathematics.	students with varied needs or
		research and data.			challenges.
6c: Utilize resources from	Not	Does not utilize	Minimal utilization of	Regularly utilizes resources	Extensive utilization of
professional mathematics	Observed	resources from	resources from professional	from professional	resources from professional
education organizations such		professional	mathematics education	mathematics education	mathematics education
as print, digital, and virtual		mathematics education	organizations such as print,	organizations such as print,	organizations such as print,
resources/collections		organizations such as	digital, and virtual	digital, and virtual resources	digital, and virtual resources
		print, digital, and virtual	resources/collections.	/collections.	/collections.
		resources/collections.			
3a: Apply knowledge of	Not	The candidate does not	The candidate	The candidate applies	The candidate applies knowledge
curriculum standards for	Observed	apply knowledge of	demonstrates limited ability	knowledge of curriculum	of curriculum standards for
secondary mathematics and		curriculum standards	to apply knowledge of	standards for secondary	secondary mathematics and their
their relationship to student		for secondary	curriculum standards for	mathematics and their	relationship to student learning
learning within and across		mathematics and their	secondary mathematics and	relationship to student	within and across mathematical
mathematical domains.		relationship to student	their relationship to student	learning within and across	Sequence and learning
		learning within and	learning within and across	mathematical domains.	experiences are linked to student
		across mathematical	mathematical domains.		centered measurable math
		domains.			objectives. The content is
					relevant and meaningful to all
					learners with high expectations
					and rigor for all learners.

5b: Engage students in developmentally appropriate mathematical activities and investigations that require active engagement and include mathematics-specific technology in building new knowledge.	Not Observed	The candidate does not engage students in developmentally appropriate mathematical activities and investigations that require active engagement and include mathematics- specific technology in building new knowledge.	The candidate demonstrates limited ability to engage students in developmentally appropriate mathematical activities and investigations that require active engagement and include mathematics-specific technology in building new knowledge.	The candidate engages students in developmentally appropriate mathematical activities and investigations that require active engagement and includes mathematics-specific technology in building new knowledge.	The candidate engages students in developmentally appropriate mathematical activities and investigations that require active engagement and includes mathematics-specific technology in building new knowledge. Provides graphic organizers, models and representations. Teacher stimulates learner reflection on prior knowledge and guides learners through learning progressions.
4e: Apply mathematical content and pedagogical knowledge to select and use instructional tools such as manipulatives and physical models, drawings, virtual environments, spreadsheets, presentation tools, and mathematics -specific technologies (e.g., graphing tools, interactive geometry software, computer algebra systems, and statistical packages); and make sound decisions about when such tools enhance teaching and learning, recognizing both the insights to be gained and possible limitations of such	Not Observed	The candidate does not apply mathematical content and pedagogical knowledge to select and use instructional tools such as manipulatives and physical models, drawings, virtual environments, spreadsheets, presentation tools, and mathematics -specific technologies (e.g., graphing tools, interactive geometry software, computer algebra systems, and statistical packages); and make sound decisions about when such tools enhance teaching and learning, recognizing both the insights to be gained and possible limitations of such tools	The candidate demonstrates limited ability to apply mathematical content and pedagogical knowledge to select and use instructional tools such as manipulatives and physical models, drawings, virtual environments, spreadsheets, presentation tools, and mathematics -specific technologies (e.g., graphing tools, interactive geometry software, computer algebra systems, and statistical packages); and make sound decisions about when such tools enhance teaching and learning, recognizing both the insights to be gained and possible limitations of such	The candidate applies mathematical content and pedagogical knowledge to select and use instructional tools such as manipulatives and physical models, drawings, virtual environments, spreadsheets, presentation tools, and mathematics -specific technologies (e.g., graphing tools, interactive geometry software, computer algebra systems, and statistical packages); and make sound decisions about when such tools enhance teaching and learning, recognizing both the insights to be gained and possible limitations of such	The candidate applies mathematical content and pedagogical knowledge to select and use instructional tools such as manipulatives and physical models, drawings, virtual environments, spreadsheets, presentation tools, and mathematics -specific technologies (e.g., graphing tools, interactive geometry software, computer algebra systems, and statistical packages); and make sound decisions about when such tools enhance teaching and learning, recognizing both the insights to be gained and possible limitations of such tools. The candidates poses questions that elicit learner thinking and result in meaningful discussion between students about how the tools used assist in problem solving

2d: Organize mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to multiple audiences.	Not Observed	The candidate does not organize mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to multiple audiences.	The candidate demonstrates limited ability to organize mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to multiple audiences.	The candidate organizes mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to multiple audiences.	The candidate organizes mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to multiple audiences. The candidate organizes mathematical thinking and use the language of mathematics to express ideas precisely, both orally and in writing to multiple audiences.
5a: Verify that secondary students demonstrate conceptual understanding; procedural fluency; the ability to formulate, represent, and solve problems; logical reasoning and continuous reflection on that reasoning; productive disposition toward mathematics; and the application of mathematics in a variety of contexts within major mathematical domains	Not Observed	The candidates does not verify that secondary students demonstrate conceptual understanding; procedural fluency; the ability to formulate, represent, and solve problems; logical reasoning and continuous reflection on that reasoning; productive disposition toward mathematics; and the application of mathematics in a variety of contexts within major mathematical domains	The candidate demonstrates limited ability to verify that secondary students demonstrate conceptual understanding; procedural fluency; the ability to formulate, represent, and solve problems; logical reasoning and continuous reflection on that reasoning; productive disposition toward mathematics; and the application of mathematics in a variety of contexts within major mathematical domains	The candidate verifies that secondary students demonstrate conceptual understanding; procedural fluency; the ability to formulate, represent, and solve problems; logical reasoning and continuous reflection on that reasoning; productive disposition toward mathematics ; and the application of mathematics in a variety of contexts within major mathematical domains	The candidate verifies that secondary students demonstrate conceptual understanding; procedural fluency; the ability to formulate, represent, and solve problems; logical reasoning and continuous reflection on that reasoning; productive disposition toward mathematics; and the application of mathematics in a variety of contexts within major mathematical domains The candidate accurately uses data from multiple assessments to draw conclusions about learner progress toward learning objectives that lead to standards and uses this analysis to guide instruction. Monitors each student's progress and keeps records to support the analysis and reporting of learner assignments. Engages students in reflection on the quality of their work.

6a: Take an active role in	Not	The candidate does	The candidate displays	The candidate takes an	The candidate takes an active
their professional growth by	Observed	engage in professional	minimal effort in engaging	active role in their	role in their professional
participating in professional		growth by participating	in professional growth by	professional growth by	growth by participating in
development experiences		in professional	participating in professional	participating in professional	professional
that directly relate to the		development	development experiences	development experiences	development experiences that
learning and teaching of		experiences that	that directly relate to the	that directly relate to the	directly relate to the learning
mathematics		directly relate to the	learning and teaching of	learning and teaching of	and teaching of mathematics
		learning and teaching of	mathematics	mathematics	The candidate demonstrates
		mathematics			outstanding leadership skills
					that contribute to individual
					growth, collegial growth,
					school improvement or the
					teaching profession. The
					candidate makes practice
					transparent by sharing plans
					and inviting observation and
					feedback.

Student Teacher Name: ______ Date: ______

University Supervisor Name:______University Supervisor Signature:______