

## **OSSE Middle School Mathematics Standards**

<u>Introduction</u>: This document enables educator preparation providers (EPPs) in the District of Columbia to provide information to the Office of the State Superintendent of Education (OSSE) regarding how the EPP aligns with the OSSE Middle School Mathematics standards adapted from the <u>National Council of Teachers of Mathematics</u> (2020).

As the state education agency for the District, OSSE has an interest in ensuring that every student has an effective teacher and that every school has effective leaders. OSSE values the dedication of District EPPs to ensure schools are staffed with effective leaders and teacher leaders and strives to ensure programmatic excellence and candidate success. Establishing that each approved DC EPP is held to a uniform set of standards will help OSSE ensure that these aims are realized.

<u>EPP Submission</u>: The EPP should submit this rubric with its evidence for the state middle school mathematics subject area program review. In completing this form, the EPP should describe how its middle school mathematics program provides candidates coursework (assignments and assessments) and/or clinical and field experiences that demonstrate competency in each of the OSSE middle school mathematics program standards below.

## **EPP Information**:

EPP name (in the box below)	EPP contact name, title and contact information (email and phone number in the box below)
Submission date (in the box below)	

**EPP Notification**: OSSE will notify the EPP of its state approval status within 60 calendar days of the subject area program review.

<u>OSSE Standards Alignment:</u> The EPP must complete the table below aligning evidence to be submitted to each OSSE middle school mathematics standard.

OSSE Standard	Description of how program meets standard	Applicable Course	Credit	Reviewer Rating
	<b>EPP:</b> Please provide a concise, yet specific description (no more than 200 words) of how the EPP subject area program meets each of the standards and components below. Please attach evidence (course syllabi, reading lists, assessment examples) to this demonstration document.	Name(s)/ Number(s)	Hours	-Meets or exceeds the standard -Partially meets the standard
	<b>Reviewer:</b> Please use the space highlighted in blue to document all notes regarding the EPP evidence provided for each standard component and overall standard and provide a rating in the last column for each standard component and an overall rating for each standard below.			-Does not meet the standard
Standard 1: Knowing and Unde	erstanding Meaningful Mathematics - Candidates demonstrate and appl	y understandings of m	ajor mathen	natics concepts,
	plications within and among mathematical domains of Number and Ope	•	•	•
Probability; Geometry, Trigono	•		,	
Component 1.A: Essential	EPP			
Concepts in Number and				
Operations - Candidates				
demonstrate and apply				
understandings of major				
mathematics concepts,				
procedures, knowledge, and				
applications of number including				
flexibly applying procedures, and				
using real and rational numbers				
in contexts, attending to units,	Reviewer Notes			Reviewer Rating
developing solution strategies				
and evaluating the correctness of				
conclusions. Major mathematical				
concepts in Number and Operations include number				
systems (particularly rational				
numbers); algorithmic and				
recursive thinking; number and				
set theory; ratio, rate of change,				
and proportional reasoning; and				
structure, relationships,				

operations, and representations.

200 words) of how the EPP subject area program meets each of the standards and components below. Please attach evidence (course syllabi, reading lists, assessment examples) to this demonstration document.  Reviewer: Please use the space highlighted in blue to document all  Number(s)  Number(s)  -Meets or exceed the standard  -Partially meets the standard	OSSE Standard	Description of how program meets standard	Applicable Course	Credit	Reviewer Rating
notes regarding the EPP evidence provided for each standard component and overall standard and provide a rating in the last column for each standard component and an overall rating for each standard Column for each standard component and an overall rating for each standard below.    Component 1.B: Essential Concepts in Algebra and Functions - Candidates demonstrate and apply understandings of major mathematics concepts, procedures, knowledge, and applications of algebra and functions including how mathematics are be used systematically to represent patterns and relationships among numbers and other objects, analyze change, and model everyday events and problems of life and society. Essential Concepts in Algebra and Functions include algebra that connects mathematical structure to symbolic, graphical, and tabular descriptions; connecting algebra to functions; induction; and develops families of functions of discrete and		200 words) of how the EPP subject area program meets each of the standards and components below. Please attach evidence (course syllabi, reading lists, assessment examples) to this demonstration document.	Name(s)/ Number(s)	Hours	-Partially meets the
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Functions - Candidates demonstrate and apply understandings of major mathematics concepts, procedures, knowledge, and applications of algebra and functions including how mathematics can be used systematically to represent patterns and relationships among numbers and other objects, analyze change, and model everyday events and problems of life and society. Essential Concepts in Algebra and Functions include algebra that connects mathematical structure to symbolic, graphical, and tabular descriptions; connecting algebra to functions, induction; and develops families of functions of discrete and	Component 1.B: Essential	EPP			
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algebra to functions; induction; and develops families of functions of discrete and	,				
and develops families of functions of discrete and	-				
functions of discrete and					
CONTINUOUS VARIABILES AS A					
fundamental concept of					
fundamental concept of mathematics.	•				

OSSE Standard	Description of how program meets standard	Applicable Course	Credit	Reviewer Rating
	EPP: Please provide a concise, yet specific description (no more than 200 words) of how the EPP subject area program meets each of the standards and components below. Please attach evidence (course syllabi, reading lists, assessment examples) to this demonstration document.  Reviewer: Please use the space highlighted in blue to document all notes regarding the EPP evidence provided for each standard component and overall standard and provide a rating in the last column for each standard component and an overall rating for each	Name(s)/ Number(s)	Hours	-Meets or exceeds the standard  -Partially meets the standard  -Does not meet the standard
	standard below.			
Component 1.C: Essential	EPP			
Concepts in Statistics and				
Probability - Candidates				
demonstrate and apply				
understandings of major				
mathematics concepts,				
procedures, knowledge, and				
applications of statistics and	Reviewer Notes			Reviewer Rating
probability including how				
statistical problem solving and				
decision making depend on				
understanding, explaining, and				
quantifying the variability in a set				
of data to make decisions. They				
understand the role of randomization and chance in				
determining the probability of				
events. Essential Concepts in				
Statistics and Probability include				
quantitative literacy; visualizing				
and summarizing data; statistical				
inference; probability;				
exploratory data analysis and				
applied problems and modeling.				

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Component 1.D: Essential	EPP			
Concepts in Geometry,				
Trigonometry, and				
Measurement - Candidates				
demonstrate and apply				
understandings of major				
mathematics concepts,				
procedures, knowledge, and				
applications of geometry				
including using visual				
representations for numerical	Reviewer Notes			Reviewer Rating
functions and relations, data and				
statistics, and networks, to				
provide a lens for solving problems in the physical world.				
Essential Concepts in Geometry,				
Trigonometry, and Measurement				
include measurement;				
transformations; scale; graph				
theory; geometric arguments;				
reasoning and proof; applied				
problems and modeling;				
development of axiomatic proof;				
and the Pythagorean theorem.				

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	syllabi, reading lists, assessment examples) to this demonstration document.			-Partially meets the standard
	<b>Reviewer:</b> Please use the space highlighted in blue to document all			
	notes regarding the EPP evidence provided for each standard			-Does not meet the
	component and overall standard and provide a rating in the last			standard
	column for each standard component and an overall rating for each standard below.			
Overall Reviewer Notes for Sta	ndard 1			Overall Reviewer Rating
	Mathematical Processes - Candidates demonstrate, within or across m			
apply the mathematical process technology appropriately within Component 2.A: Problem Solving - Candidates	Mathematical Processes - Candidates demonstrate, within or across moves of problem-solving; reason and communicate mathematically; and earthese mathematical processes.  EPP			
apply the mathematical process technology appropriately within Component 2.A: Problem Solving - Candidates demonstrate a range of	es of problem-solving; reason and communicate mathematically; and enthese mathematical processes.			
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apply the mathematical process technology appropriately within Component 2.A: Problem Solving - Candidates demonstrate a range of mathematical problem-solving strategies to make sense of and solve non-routine problems (both contextual and non-contextual)	es of problem-solving; reason and communicate mathematically; and enthese mathematical processes. <b>EPP</b>			Candidates apply
apply the mathematical process technology appropriately within Component 2.A: Problem Solving - Candidates demonstrate a range of mathematical problem-solving strategies to make sense of and solve non-routine problems (both contextual and non-contextual) across mathematical domains.  Component 2.B: Reasoning and Communicating - Candidates organize their	tes of problem-solving; reason and communicate mathematically; and en these mathematical processes.  EPP  Reviewer Notes			Candidates apply
apply the mathematical process technology appropriately within Component 2.A: Problem Solving - Candidates demonstrate a range of mathematical problem-solving strategies to make sense of and solve non-routine problems (both contextual and non-contextual) across mathematical domains.  Component 2.B: Reasoning and Communicating - Candidates organize their mathematical reasoning and use the language of mathematics to	tes of problem-solving; reason and communicate mathematically; and en these mathematical processes.  EPP  Reviewer Notes			Candidates apply
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Component 2.C:	EPP			
Mathematical Modeling and Use of Mathematical Models - Candidates understand the				
difference between the mathematical modeling process	D. C. Aldri			
and models in mathematics. Candidates engage in the mathematical modeling process and demonstrate their ability to model mathematics.	Reviewer Notes			Reviewer Rating
Overall Reviewer Notes for Star	ndard 2			Overall Reviewer Rating
engaging mathematics instruction	and Planning for Mathematical Learning - Candidates use knowledge of on supporting students' access and learning. The mathematics instruction learn and apply mathematics concepts, skills, and practices.		•	_
Component 3.A: Student	EPP			
<b>Diversity</b> - Candidates identify and use students' individual and group differences when planning				
rigorous and engaging mathematics instruction that	Reviewer Notes			Reviewer Rating

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	Reviewer: Please use the space highlighted in blue to document all			Standard
	notes regarding the EPP evidence provided for each standard			-Does not meet the
	component and overall standard and provide a rating in the last			standard
	column for each standard component and an overall rating for each standard below.			
supports students' meaningful	Standard Sciow.			
participation and learning.				
Component 3.B: Students'	EPP			
Mathematical Strengths -				
Candidates identify and use				
students' mathematical strengths				
to plan rigorous and engaging	Reviewer Notes			Reviewer Rating
mathematics instruction that				
supports students' meaningful				
participation and learning.				
Component 3.C: Positive	EPP			
Mathematical Identities -				
Candidates understand that				
teachers' interactions impact				
individual students by influencing				
and reinforcing students'	Reviewer Notes			Reviewer Rating
mathematical identities, positive				
or negative, and plan experiences				
and instruction to develop and				
foster positive mathematical				
identities.				
Overall Reviewer Notes for Sta	ndard 3			Overall Reviewer
				Rating

OSSE Standard	Description of how program meets standard	Applicable Course	Credit	Reviewer Rating
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for a full range of students. Can	ful Mathematics - Candidates implement effective and equitable teaching didates establish rigorous mathematics learning goals, engage students ns, elicit and use student responses, develop conceptual understanding	in high cognitive dema	and learning,	use mathematics
Component 4.A: Establish	EPP			
Rigorous Mathematics				
Learning Goals - Candidates				
establish rigorous mathematics learning goals for students based on mathematics standards and practices.	Reviewer Notes			Reviewer Rating
Component 4.B: Engage	EPP			
Students in High Cognitive				
<b>Demand Learning -</b> Candidates select or develop and implement				
high cognitive demand tasks to engage students in mathematical learning experiences that promote reasoning and sense making.	Reviewer Notes			Reviewer Rating
Component 4.C: Incorporate	EPP			
Mathematics-Specific Tools - Candidates select mathematics-				

specific tools, including

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technology, to support students' learning, understanding, and application of mathematics and to integrate tools into instruction.	Reviewer Notes			Reviewer Rating
Component 4.D: Use	EPP			
Mathematical				
Representations - Candidates				
select and use mathematical	Reviewer Notes			Reviewer Rating
representations to engage				
students in examining understandings of mathematics				
concepts and the connections to				
other representations.				
Component 4.E. Elicit and Use	EPP			
Student Responses -				
Candidates use multiple student				
responses, potential challenges,	Reviewer Notes			Reviewer Rating
and misconceptions, and they	neviewer Notes			heviewer hutilig
highlight students' thinking as a				
central aspect of mathematics				
teaching and learning.		T		
Component 4.F: Develop	EPP			
Conceptual Understanding				
and Procedural Fluency -				
Candidates use conceptual				

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understanding to build procedural fluency for students through instruction that includes explicit connections between concepts and procedures.	Reviewer Notes			Reviewer Rating
Component 4.G: Facilitate	EPP			
<b>Discourse -</b> Candidates pose				
purposeful questions to facilitate				
discourse among students that ensures that each student learns	Reviewer Notes			Reviewer Rating
rigorous mathematics and builds				
a shared understanding of				
mathematical ideas.				
Overall Reviewer Notes for Sta	ndard 4			Overall Reviewer Rating
and subsequent student learnin	n Student Learning - Candidates assess and use evidence of students' leg. Candidates analyze learning gains from formal and informal assessmentated by demographic categories, and they use this information to informat	ents for individual stud	ents, the clas	•
Component 5.A: Assessing for	EPP			
<b>Learning -</b> Candidates select, modify, or create both informal				
and formal assessments to elicit information on students'	Reviewer Notes			Reviewer Rating

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progress toward rigorous mathematics learning goals.				
Component 5.B: Analyze	EPP			
Assessment Data - Candidates				
collect information on students'				
progress and use data from				
informal and formal assessments	Reviewer Notes			Reviewer Rating
to analyze progress of individual				
students, the class as a whole,				
and subgroups of students disaggregated by demographic				
categories toward rigorous				
mathematics learning goals.				
Component 5.C: Modify	EPP			
Instruction - Candidates use the				
evidence of student learning of				
individual students, the class as a				
whole, and subgroups of				
students disaggregated by				
demographic categories to	Pavious Notes			Davious a Datin
analyze the effectiveness of their	Reviewer Notes			Reviewer Rating
instruction with respect to these				
groups. Candidates propose				
adjustments to instruction to				
improve student learning for				

OSSE Standard	Description of how program meets standard	Applicable Course	Credit	Reviewer Rating
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	<b>Reviewer:</b> Please use the space highlighted in blue to document all notes regarding the EPP evidence provided for each standard component and overall standard and provide a rating in the last column for each standard component and an overall rating for each standard below.			-Does not meet the standard
each and every student based on the analysis.		1		
Overall Reviewer Notes for Sta	ndard 5			Overall Reviewer Rating
colleagues and other stakeholde	onal Context of Mathematics Teaching and Learning - Candidates are rers to grow professionally, to support student learning, and to create m			
Component 6.A. Promote				
Component 6.A. Promote Equitable Learning Environments - Candidates seek to create more equitable	ers to grow professionally, to support student learning, and to create m			
Component 6.A. Promote Equitable Learning Environments - Candidates	ers to grow professionally, to support student learning, and to create m			
Component 6.A. Promote Equitable Learning Environments - Candidates seek to create more equitable learning environments by identifying beliefs about teaching and learning mathematics, and associated classroom practices that produce equitable or inequitable mathematical learning for students. Component 6.B. Promote	ers to grow professionally, to support student learning, and to create m			g environments.
Component 6.A. Promote Equitable Learning Environments - Candidates seek to create more equitable learning environments by identifying beliefs about teaching and learning mathematics, and associated classroom practices that produce equitable or inequitable mathematical learning for students.	EPP  Reviewer Notes			g environments.

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on their impact on students' mathematical identities and develop professional learning goals that promote students' positive mathematical identities.	Reviewer Notes			Reviewer Rating
Component 6.C. Engage Families and Community - Candidates communicate with	EPP			
families to share and discuss strategies for ensuring the mathematical success of their children.	Reviewer Notes			Reviewer Rating
Component 6.D. Collaborate with Colleagues - Candidates collaborate with colleagues to	EPP			
grow professionally and support student learning of mathematics.	Reviewer Notes			Reviewer Rating
Overall Reviewer Notes for Star	ndard 6			Overall Reviewer Rating

**Standard 7: Middle-Level Field Experiences and Clinical Practice -** Effective teachers of middle-level mathematics engage in a planned sequence of field experiences and clinical practice under the supervision of experienced and highly qualified mathematics teachers. They develop a broad experiential base of knowledge, skills, effective approaches to mathematics teaching and learning, and professional behaviors in settings that involve a diverse range and varied

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	es experience a full-time student teaching/internship in middle-level manathematics teaching experience or equivalent knowledge base.	l athematics supervised	by university	or college faculty
Component 7.A. Design of Field Experiences and Clinical Practice - Candidates participate	EPP			
in a diverse range of field experiences and clinical practice in both middle level settings with highly qualified mathematics teachers.	Reviewer Notes			Reviewer Rating
Component 7.B. Supervision of Field Experiences - Supervisors for the full-time	EPP			
student teaching/internship in middle school mathematics have secondary or middle level mathematics teaching experience or equivalent knowledge base.	Reviewer Notes		1	Reviewer Rating
Overall Reviewer Notes for Star	ndard 7			Overall Reviewer Rating

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Overall OSSE Middle So	chool Mathematics Standards Reviewer Notes			Overall OSSE Middle School Mathematics Standards Reviewer Rating