

24/25 Math Supplemental PD Sessions (K-12)

Please Register for Sessions on PowerSchool. Spots are limited, so register early, and withdraw if you are unable to attend.

More sessions will be added as the year progresses. Click on the grade band below to see the sessions available.

If you have general questions or suggestions, please email math@philasd.org

Upcoming Sessions: May

Grades	Date & Time	Session Title	Session Description	Resources for some sessions available	Link to register on Powerschool/ Interest form
			K - 5th grades		
3-5	11/7/24 OR 11/19/24 4:30-6:00 PM	Grades 3-5 Math: Unpacking Multiplicative Reasoning Across the Grades	When and how does multiplicative reasoning appear in the Common Core Standards for grades 3, 4, and 5? In this session we will explore how multiplication and division understanding progress across grades 3, 4 and 5. We will consider the representations, models, and language that are crucial for developing conceptual understanding as well as how to build students' capacity for multiplicative reasoning.		
3	11/25/24 4:30-6:00 PM	Grade 3 Math: Unpacking Unit 4 (Relating Multiplication to Division)	Educators will explore their upcoming math unit, <i>Relating Multiplication to Division</i> , by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.		
K-2	November 14, 2024 4:30-6:00	Math: Unpacking Additive Reasoning in K-2 in Mathematics	When and how does additive reasoning appear in the Common Core Standards for grades K, 1, and 2? In this session, we will explore how addition and subtraction understanding progress across grades K, 1, and 2. We will consider the strategies, representations, and language crucial for developing conceptual understanding and how to build students' capacity for additive reasoning.		

Grades	Date & Time	Session Title	Session Description	Resources for some sessions available	Link to register on Powerschool/ Interest form
K-5	November 2024 - May 2025 *See Session Description for details	Intellectually Preparing for Illustrative Mathematics Through Video Reflection	This professional development series leads teachers through a cycle of intellectual preparation, video-based instructional reflection, and collaborative professional learning that prepares them to be filmed for the District's Teaching Video Library (ETVL). Participation in all sessions (outlined below) builds intentionally for the ETVL filming day, so participants are expected to attend all sessions and agree to have their classrooms filmed for the Exemplary Teacher Video Library. Participants are paid for the different types of participation outlined below. 8 group zoom sessions 1 (1-1) zoom session 5 hours of independent reflection/planning Click here for dates and detailed session information.	This is a cohort that is now full. If you have questions about the sessions, please email jlee4@philasd.or	
K-2	December 3, 2024 4:30-6:00	Math: Building Place Value Understanding in K-2 Mathematics	When and how does place value understanding develop in the Common Core Standards for Kindergarten, Grade 1, and Grade 2? In this session we will explore how place value understanding progresses across grade levels from Kindergarten to Grade 2. We will consider the representations, models, and language that are crucial for developing conceptual understanding.	Virtual HandoutScreencast	
1	January 7, 2025 4:30-6:00	Math Grade 1: Unpacking Illustrative Mathematics Unit 4 (Numbers to 99)	Educators will explore their upcoming math unit, <i>Numbers to</i> 99, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	
3	1/7/25 4:30-6:00 PM	Grade 3 Math: Unpacking Unit 5 (Fractions as Numbers)	Fractions as Numbers, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.		
2	January 8, 2025 4:30-6:00	Math Grade 2: Unpacking Illustrative Mathematics Unit 5 (Numbers to 1,000)	Educators will explore their upcoming math unit, <i>Numbers to</i> 1,000, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently	Here are the tools you need to recreate this session: Facilitator Guide	

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			teaching connects to the larger coherence of K-12 math.	Teacher Guide	
4	1/27/25 4:30-6:00 PM	Grade 4 Math: Unpacking Unit 6 (Multiplying and Dividing Multidigit Numbers)	Multiplying and Dividing Multidigit Numbers, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.		This Session is full. Please email itustin@philasd.org if you have questions about the content.
5	2/6/25 4:30-6:00 PM	Grade 5 Math: Unpacking Unit 6 (Decimal and Fraction Operations)	Decimal and Fraction Operations, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.		This Session is full. Please email itustin@philasd.org if you have questions about the content.
К	February 25, 2025 4:30-6:00	Math: Kindergarten Unpacking Illustrative Mathematics Unit 6 (Numbers 0-20)	Educators will explore their upcoming math unit, <i>Numbers 0-20</i> , by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	Powerschool link here
			6th-12th grades		
6	10/28 4:30- 6:00 PM	Math: Unpacking Grade 6 Unit 3 with Illustrative Mathematics	Educators will explore their upcoming math unit, Unit Rates and Percentages, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	
7	10/30 4:30- 6:00 PM	Math: Unpacking Grade 7 Unit 4 with Illustrative Mathematics	Educators will explore their upcoming math unit, Proportional Relationships and Percentages, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	

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8	10/29 4:30- 6:00 PM	Math: Unpacking Grade 8 Unit 3 with Illustrative Mathematics	Educators will explore their upcoming math unit, Linear Relationships, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	
6-8	11/19 4:30-6:00 PM	Math: Ratios, Proportions, and Proportional Reasoning in Grades 6-8	Educators will broaden and deepen their mathematical understanding of one of the most challenging topics for students-and teachers, ratios, proportions and proportional reasoning. This session will focus on the ideas educators need to understand thoroughly to teach confidently.	Recording	
K-12	November 2024 - May 2025 *See Session Description for details	Intellectually Preparing for Illustrative Mathematics Through Video Reflection	This professional development series leads teachers through a cycle of intellectual preparation, video-based instructional reflection, and collaborative professional learning that prepares them to be filmed for the District's Teaching Video Library (ETVL). Participation in all sessions (outlined below) builds intentionally for the ETVL filming day, so participants are expected to attend all sessions and agree to have their classrooms filmed for the Exemplary Teacher Video Library. Participants are paid for the different types of participation outlined below. 8 group zoom sessions 1 (1-1) zoom session 5 hours of independent reflection/planning Click here for dates and detailed session information.	This is a cohort that is now full. If you have questions about the sessions, please email jlee4@philasd.or	
K-12	11/20, 12/4, 12/11, 12/18 5:00-6:30pm	Family Math Series	This four-part series, developed in partnership with the FACE office, will introduce a cohort of educators to best practices in engaging families with mathematics at home. Educators will develop strategies for assessing families' needs around supporting students with math and how to create culturally responsive math resources, activities, and events. Teachers who participate will understand the core resources accompanying Imagine Learning/Illustrative Mathematics and participate in modeling activities that they can utilize with their students and families.	This series is now over. Please email ilauer@philasd.org if you have questions about supporting schools with family math engagement.	
6-8	11/19	Math: Small-group	Educators will attend only one of these introductory sessions		

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	or 11/20 4:30-6:00 PM	instruction in middle grades math	(11/19 or 11/20). In this series of professional development sessions, participants will develop plans for targeted, small-group math instruction based on their students' learning needs. Subsequent sessions will focus on content and resource selection, progress monitoring, and classroom organization concerns. Participation in one of these introductory sessions is required to participate in the follow-up sessions (Jan, Feb, Apr, May). Click here for dates and detailed session information.		
9	12/4/24 4:30 - 6:00 PM	Algebra Targeted Intervention Pilot	(Series) In this series, educators will develop targeted intervention (Tier 2) to support students' development of proportional reasoning understanding; to build rational number operation concepts and skills; and to build concepts and skills related to linear relationships and solving equations. In this initial session, we will discuss a formative assessment framework to organize a system of targeted support for Algebra 1 students. We will share assessment and instruction resources focused on one of the content strands for participants to pilot.		
9	12/5/24	Math Algebra 1: Unpacking IM Unit 4 (Functions)	Educators will explore their upcoming math unit, Functions, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	
10-11	12/14/24	Math Geometry: Unpacking IM Unit 5 (Solid Geometry)	Educators will explore their upcoming math unit, Solid Geometry, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math	Here are the tools you need to recreate this session: Facilitator Guide Teacher Guide	
9	1/11 9:30 - 11:30 AM	Algebra Targeted Intervention Pilot	(Series) In this series, educators will develop targeted intervention (Tier 2) to support students' development of proportional reasoning understanding; to build rational number operation concepts and skills; and to build concepts and skills related to linear relationships and solving equations. In this second session, we will share learning data, problem solve together, and focus on actionable feedback. We will share assessment and instruction		

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			resources focused on a second content strand for participants to pilot.		
6	1/13 4:30-6:00 PM	Math: Unpacking Grade 6 Unit 6 with Illustrative Mathematics	Educators will explore their upcoming math unit, Expressions and Equations, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math.	Facilitator Guide Teacher Guide	
6-8	1/21 4:30-6:00 PM	Math: Mathematical Expressions and Equations in Grades 6-8 (Part I)	In this two part series, educators will explore essential understandings about expressions and equations for teaching mathematics in grades 6-8. In part I we will discuss challenges that students encounter in learning about expressions and equations, as well as some implications of these challenges for instruction and assessment. Educators must attend part I and part II of this series.		This Session is full. Please email blascola@philasd.org if you have questions about the content.
9-12	1/23/25	Standards of Mathematical Practice 5: Use Tools Strategically	Teachers will explore the standards of mathematical practice with an emphasis on SMP5: Use Tools Strategically. Teachers will leverage the available tools students should be using to enhance instruction for high school math: Algebra 1, Geometry, Algebra 2, Precalculus, Statistics, etc.	Recording Virtual Handout	Register <u>HERE</u> on Powerschool
10-11	1/30/25	Math Algebra 2: Unpacking IM Unit 4 (Exponential Equations and Functions)	Educators will explore their upcoming math unit, Exponential Equations and Functions, by understanding the story of the unit. They will understand the why for sequencing the learning across sections, unpack learning goals, and plan with the end in mind. They will also see how the unit they are currently teaching connects to the larger coherence of K-12 math	Facilitator Guide Teacher Guide	Register <u>HERE</u> on Powerschool
6-8	2/4 4:30-6:00 PM	Math: Mathematical Expressions and Equations in Grades 6-8 (Part II)	In part II of this series, educators will continue to explore essential understandings about expressions and equations for teaching mathematics in grades 6-8. We will apply our learning from Part I of the series to make connections to our core curricular resource, Illustrative Mathematics, to support challenges students encounter when learning about expressions and equations.		This Session is full. Please email blascola@philasd.org if you have questions about the content.
6-12	2/20/25	Understand the Concrete-Representationa I-Abstract Model to Increase Access in Math	Teachers will look at ways to leverage the Concrete-Representational-Abstract model to provide support for students in high school math.	Recording Virtual Handout	

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		Instruction			
9	2/22 9:30 - 11:30 AM	Algebra Targeted Intervention Pilot	(Series) In this series, educators will develop targeted intervention (Tier 2) to support students' development of proportional reasoning understanding; to build rational number operation concepts and skills; and to build concepts and skills related to linear relationships and solving equations. In this third session, we will share learning data, problem solve together, and connect our learning to Tier 1 instructional practice. We will share assessment and instruction resources focused on the third content strand for participants to pilot.		
9-12	3/6/25	Preparing Students to be Successful on the Keystone and other High-Stakes Standardized Tests	Teachers will gain a deeper understanding of high-stakes standardized tests to best support their students. Teachers will learn about different aspects of exams like the Keystone Algebra 1 (structure of exam, level of questions, etc) to help students be successful.	Recording	
6-12	3/20/25	The 5 Practices and the Monitoring Template in Math Instruction	Teachers will explore the strategies described in the book "5 Practices". They will also see how those practices are embedded in many activities using the IM curriculum. The teachers will leverage the monitoring chart and think of ways to enhance student thinking through questioning.		Register <u>HERE</u> on Powerschool
9	4/5 9:30 - 11:30 AM	Algebra Targeted Intervention Pilot	(Series) In this series, educators will develop targeted intervention (Tier 2) to support students' development of proportional reasoning understanding; to build rational number operation concepts and skills; and to build concepts and skills related to linear relationships and solving equations. In this final session, we will share learning data, problem solve together, and reflect on our learning and what remains unclear. We will discuss what ongoing learning and support participants might need in the 2025-26 academic year and develop a plan for how to build the capacity of other teachers to engage in similar work in 2025-26.		Coming Soon!

Grades	Date & Time	Session Title	Session Description	Resources for some sessions available	Link to register on Powerschool/ Interest form
K-5	4/23 4:30-6:00 PM	From Observation to Action: The Power of Monitoring in Problem-Based Learning	This session introduces the 5 Practices framework, emphasizing the critical role of monitoring within the sequence. Educators will explore each practice in the context of an Imagine IM lesson, focusing on practical strategies for using monitoring to select, sequence, and connect student ideas to support activity and lesson synthesis. Designed for those looking to deepen their monitoring practices, this session will equip participants with actionable insights to promote learning goals throughout the lesson. This session is designed for participants to understand the 5 Practices Framework and enhance their monitoring strategies. It provides actionable insights to effectively support and promote learning goals throughout the lesson.		Register HERE on PowerSchool
6-8	4/23 4:30-6:00 PM	From Observation to Action: The Power of Monitoring in Problem-Based Learning	This session introduces the 5 Practices framework, emphasizing the critical role of monitoring within the sequence. Educators will explore each practice in the context of an Imagine IM lesson, focusing on practical strategies for using monitoring to select, sequence, and connect student ideas to support activity and lesson synthesis. Designed for those looking to deepen their monitoring practices, this session will equip participants with actionable insights to promote learning goals throughout the lesson. This session is designed for participants to understand the 5 Practices Framework and enhance their monitoring strategies. It provides actionable insights to effectively support and promote learning goals throughout the lesson.		Register <u>HERE</u> on PowerSchool

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9-12	4/23 4:30-6:00 PM	Lesson Pacing in IM	In this session, participants will explore strategies for effectively managing lesson pacing while addressing common implementation challenges. Topics include pacing struggles, managing warm-up timing, avoiding over-teaching, maintaining focus on learning objectives, and prioritizing lesson synthesis. By the end of the session, attendees will leave with practical tools to align pacing with instructional goals, fostering deeper student engagement and enhancing understanding. This session is designed for educators seeking strategies to complete Imagine IM lessons within the recommended time frame while maintaining instructional quality.		Register HERE on PowerSchool
K-5	4/24 4:30-6:00 PM	From Observation to Action: The Power of Monitoring in Problem-Based Learning	This session introduces the 5 Practices framework, emphasizing the critical role of monitoring within the sequence. Educators will explore each practice in the context of an Imagine IM lesson, focusing on practical strategies for using monitoring to select, sequence, and connect student ideas to support activity and lesson synthesis. Designed for those looking to deepen their monitoring practices, this session will equip participants with actionable insights to promote learning goals throughout the lesson. This session is designed for participants to understand the 5 Practices Framework and enhance their monitoring strategies. It provides actionable insights to effectively support and promote learning goals throughout the lesson.		Register <u>HERE</u> on PowerSchool
6-8	4/24 4:30-6:00 PM	Enhancing Mathematics for Linguistically Diverse Students	This session spotlights the intentional design of Imagine IM in engaging and supporting linguistically diverse students as they make sense of mathematics. Participants will explore the 8 embedded Math Language Routines (MLRs) and practice planning and facilitating routines to promote both language and content development for all learners. This session is for participants seeking an introduction to Math Language Routines (MLRs) and how to use these supports to enhance language and content development for students.		Register <u>HERE</u> on PowerSchool

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K-5	4/26 9:30-11:00 AM	Enhancing Mathematics for Linguistically Diverse Students	This session spotlights the intentional design of Imagine IM in engaging and supporting linguistically diverse students as they make sense of mathematics. Participants will explore the 8 embedded Math Language Routines (MLRs) and practice planning and facilitating routines to promote both language and content development for all learners. This session is for participants seeking an introduction to Math Language Routines (MLRs) and how to use these supports to enhance language and content development for students.		Register HERE on PowerSchool
K-5	4/30 4:30-6:00 PM	K-5 Math: Lesson Pacing in IM	In this session, participants will explore strategies for effectively managing lesson pacing while addressing common implementation challenges. Topics include pacing struggles, managing warm-up timing, avoiding over-teaching, maintaining focus on learning objectives, and prioritizing lesson synthesis. By the end of the session, attendees will leave with practical tools to align pacing with instructional goals, fostering deeper student engagement and enhancing understanding. This session is designed for educators seeking strategies to complete Imagine IM lessons within the recommended time frame while maintaining instructional quality.		Register HERE on PowerSchool

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6-8	4/30 4:30-6:00 PM	6-8 Math: From Observation to Action: The Power of Monitoring in Problem-Based Learning	This session introduces the 5 Practices framework, emphasizing the critical role of monitoring within the sequence. Educators will explore each practice in the context of an Imagine IM lesson, focusing on practical strategies for using monitoring to select, sequence, and connect student ideas to support activity and lesson synthesis. Designed for those looking to deepen their monitoring practices, this session will equip participants with actionable insights to promote learning goals throughout the lesson. This session is designed for participants to understand the 5 Practices Framework and enhance their monitoring strategies. It provides actionable insights to effectively support and promote learning goals throughout the lesson.		Register HERE on PowerSchool
6-8	4/30 4:30-6:00 PM	6-8 Math: Enhancing Mathematics for Linguistically Diverse Students	This session spotlights the intentional design of Imagine IM in engaging and supporting linguistically diverse students as they make sense of mathematics. Participants will explore the 8 embedded Math Language Routines (MLRs) and practice planning and facilitating routines to promote both language and content development for all learners. This session is for participants seeking an introduction to Math Language Routines (MLRs) and how to use these supports to enhance language and content development for students.		Register <u>HERE</u> on PowerSchool
9-12	4/30 4:30-6:00 PM	9-12 Math: From Observation to Action: The Power of Monitoring in Problem-Based Learning	This session introduces the 5 Practices framework, emphasizing the critical role of monitoring within the sequence. Educators will explore each practice in the context of an Imagine IM lesson, focusing on practical strategies for using monitoring to select, sequence, and connect student ideas to support activity and lesson synthesis. Designed for those looking to deepen their monitoring practices, this session will equip participants with actionable insights to promote learning goals throughout the lesson. This session is designed for participants to understand the 5 Practices Framework and enhance their monitoring strategies. It provides actionable insights to effectively support and promote learning goals throughout the lesson.		Register HERE on PowerSchool

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K-5	5/1 4:30-6:00 PM	K-5 Math: Enhancing Mathematics for Linguistically Diverse Students	This session spotlights the intentional design of Imagine IM in engaging and supporting linguistically diverse students as they make sense of mathematics. Participants will explore the 8 embedded Math Language Routines (MLRs) and practice planning and facilitating routines to promote both language and content development for all learners. This session is for participants seeking an introduction to Math Language Routines (MLRs) and how to use these supports to enhance language and content development for students.		Register <u>HERE</u> on PowerSchool
K-5	5/7 4:30-6:00 PM	K-5 Math: Lesson Pacing in IM	In this session, participants will explore strategies for effectively managing lesson pacing while addressing common implementation challenges. Topics include pacing struggles, managing warm-up timing, avoiding over-teaching, maintaining focus on learning objectives, and prioritizing lesson synthesis. By the end of the session, attendees will leave with practical tools to align pacing with instructional goals, fostering deeper student engagement and enhancing understanding. This session is designed for educators seeking strategies to complete Imagine IM lessons within the recommended time frame while maintaining instructional quality.		Register HERE on PowerSchool
K-5	5/7 4:30-6:00 PM	K-5 Math: Enhancing Mathematics for Linguistically Diverse Students	This session spotlights the intentional design of Imagine IM in engaging and supporting linguistically diverse students as they make sense of mathematics. Participants will explore the 8 embedded Math Language Routines (MLRs) and practice planning and facilitating routines to promote both language and content development for all learners. This session is for participants seeking an introduction to Math Language Routines (MLRs) and how to use these supports to enhance language and content development for students.		Register HERE on PowerSchool

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K-5	5/8 4:30-6:00 PM	K-5 Math: Enhancing Mathematics for Linguistically Diverse Students	This session spotlights the intentional design of Imagine IM in engaging and supporting linguistically diverse students as they make sense of mathematics. Participants will explore the 8 embedded Math Language Routines (MLRs) and practice planning and facilitating routines to promote both language and content development for all learners. This session is for participants seeking an introduction to Math Language Routines (MLRs) and how to use these supports to enhance language and content development for students.		Register HERE on PowerSchool
K-5	5/10 9:30-11:00	K-5 Math: From Observation to Action: The Power of Monitoring in Problem-Based Learning	This session introduces the 5 Practices framework, emphasizing the critical role of monitoring within the sequence. Educators will explore each practice in the context of an Imagine IM lesson, focusing on practical strategies for using monitoring to select, sequence, and connect student ideas to support activity and lesson synthesis. Designed for those looking to deepen their monitoring practices, this session will equip participants with actionable insights to promote learning goals throughout the lesson. This session is designed for participants to understand the 5 Practices Framework and enhance their monitoring strategies. It provides actionable insights to effectively support and promote learning goals throughout the lesson.		Register HERE on PowerSchool
K-5	5/27 4:30-6:00 PM	K-5 Math: An Introduction to Imagine IM	In this webinar, participants will reflect on their experiences implementing Imagine Learning Illustrative Mathematics throughout the current school year, and then explore key updates in the new Imagine IM platform. Participants will leave the session equipped to navigate the updated platform and learn from their experiences as they look towards the upcoming school year.		Registration closed (see <u>5/29 session</u>)

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