EUREKA MATH®

PROFESSIONAL DEVELOPMENT

VIRTUAL UNDERSTANDING THE MAJOR WORK OF THE K–2 GRADE BAND: *A STORY OF UNITS*®

Session Objectives:
Participants will understand

- explore the big idea of the unit and work with unit language,
- study the four components of the number core and their relationship to addition and subtraction,
- investigate the three levels of problem solving for addition and subtraction,
- review the progression of strategies for composition and decomposition and their relationship to place value, and
- practice with physical and written representations of the standard algorithms for addition and subtraction.

TIME	AGENDA	DESCRIPTION
Zoom Session 1 2 hours	**Number Core** **Three Levels of Problem Solving for Addition** **Progression of Strategies for Addition** **Standard Algorithim for Addition**	**During the first virtual PD session, participants will** • deepen their understanding of the four aspects of the number core and their relationship to addition, • use the make ten addition strategy and the skills it requires, • study concrete and pictorial representations that build conceptual understanding of addition, and • relate physical and written representations of the standard algorithms for addition.
Interim Work and Lunch Break 2 hours	**Professional Reading** **Grade Level Problems**	**To prepare for the second virtual PD session, participants will** • read the Progression Document Appendix, "Methods Used for Solving Single-Digit Addition and Subtraction Problems," • reflect on the relationship between addition and subtraction, and • apply strategies from session 1 to grade level problems.
Zoom Session 2 2 hours	**Three Levels of Problem Solving for Subtraction** **Progression of Strategies for Subtraction** **Standard Algorithm for Subtraction** **Summary of Session**	**During the second virtual PD session, participants will** • use take from ten subtraction strategies and the skills they require, • study concrete and pictorial representations that build conceptual understanding of subtraction, • relate physical and written representations of the standard algorithms for subtraction, and • synthesize the learning of the day through problem solving.

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