



## **Landscapes of Learning Mathematics Professional Development for Master Teachers, P-8 Teachers, Coaches & Supervisors**

The Western Region of the New York State Master Teacher Program is excited to offer a sixth course in the mathematical landscapes of learning series that focuses on the big ideas, strategies, and models related to the development of measurement thinking in the elementary and middle grades. As with previous courses, content will be situated within a landscape of learning framework<sup>1</sup> that is based on the premise that students' mathematical thinking develops through a progression that begins with contexts or concrete tasks followed by pictorial representations and culminating in abstract perspectives. Exploration of Common Core strands across the grade levels will provide opportunities for participants to share their grade level expertise and to enhance their understanding of the coherent development of topics along the K – 8 spectrum. Each participant will receive a CTLE certificate for 12 hours of professional development. First-time participants will also receive a set of 6 large dry-erase boards (24x32) for small group work presentation.

This minicourse will meet for two weeks on Tuesdays and Thursdays at Buffalo State, from 5:00 - 8:00 PM. We will provide food and beverages so please join us at 4:30 before the session begins to allow time to eat.

**Landscapes VI: Measurement      **January 16, 18, 23, & 25**      **4:30 PM - 8:00 PM**  
**Science and Mathematics Complex 259****

In this minicourse we will explore fundamental ideas related to linear, 2D and 3D measurement. The landscape of learning progresses from children's early visual-based comparisons and quantification to an increased focus on the relationship between number and measurement including conservation, partitioning, unitizing and iteration. Activities will build on our work in Landscapes V as we delve into geometric contexts and explore paths and linear measure, turns and angle measure, area and surface area, volume, as well as distance in the coordinate plane including the Pythagorean theorem. Our discussions will focus on sharing classroom practices that foster students' growth across the landscape and take advantage of the range of grade level perspectives that will be represented. Concrete tools for thinking including tiles, blocks, sketches and drawings, geoboards, as well as apps and computer graphics and coding, will be an integrated into course activities.

**There is no cost for this workshop! The workshop is open to all Master Teachers, P-8 teachers, coaches, and administrators/supervisors. Seating is limited so please register soon at <https://wnymasterteachers.wufoo.com/forms/math-landscapes-jan-2018>**

**If you have questions, please contact Buffalo State Master Teacher Program at [msmt@buffalostate.edu](mailto:msmt@buffalostate.edu)**

<sup>1</sup> The landscape model is based on the work of Catherine Fosnot as documented in her *Young Mathematicians at Work* series.