Opening Doors to STEM through Mathematics:
A TEACHER PROFESSIONAL DEVELOPMENT WORKSHOP

Who is this for?
This workshop is geared to 4th-8th grade mathematics educators and educators from other STEM subject areas.

What does this involve?
First you will join your peers and facilitators from UNI’s Center for Teaching and Learning Mathematics on the UNI campus on Saturday, March 4th, 2017 from 8 a.m. to 4 p.m. as we explore mathematics as a gateway to all STEM subjects.

Then you will complete the 6-hour Growth Mindset Online Course on your own between March 5th and April 5th.

Finally, you will participate in a 2-hour Wrap Up Webinar later in April.

What will I learn?
Everyone can do math! Making mistakes, struggling, and being persistent are all important. This workshop will utilize the ideas of Growth Mindset organized around three themes - algebraic problem solving, the visualization of mathematics, and making connections between representations and ideas. Participants will build the skills to assist their students in communicating, reasoning about, and justifying their own ideas. This workshop is modeled after the UNI STEM Camp - Opening Doors to STEM. Participants will leave prepared to run their own camp, after-school program, or integrate a Growth Mindset and Algebraic thinking into their own classes.

What is included?
All workshop participants will receive a copy of the book Mathematical Mindsets: Unleashing Students’ Potential through Creative Math, Inspiring Messages and Innovative Teaching and other course materials. Lunch will also be provided on Saturday, March 4th.

What is the cost?
The workshop is free, however participants may earn an optional 1-hour of UNI graduate credit at the reduced cost of $75.

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