

Math can be confusing, frustrating, and just plain difficult, especially if you haven't used it in a long time or don't use it every day. This one, in person, "3-D Math" course will help water and wastewater operators "visualize" math problems by moving them from a 2-dimensional diagram on a piece of paper to a 3-dimensional (3-D) experience by holding them in your hands. Using measuring a tape and other hands-on props, you will experience math that makes sense and translates to performing calculations on your certification exams and on the job.

Locations:

- September 9, 2025: Maine Water Company's Saco River Drinking Water Resource Center, 15 Waterworks Dr, Biddeford
- September 10, 2025: Kennebec Water District, 131 Drummond Ave, Waterville
- September 11, 2025: City Council Chambers, 1 City Hall Plz, Ellsworth

Agenda:

7:30am	Registration
8:00am	Class
10:15am	Break
10:30am	Class
12:00pm	Lunch
1:00pm	Class
3:15pm	Q & A and evaluations

Course Registration Fees:

- MWUA member: \$75
- Non-member: \$90

Register early as these classes are limited to 20 attendees.

Register at [MWUA's website](https://www.mwua.org) or by call us at 207-623-9511.

Instructor: Phyllis Rand has 35 years of experience working in the wastewater and water treatment professions as a laboratory supervisor, industrial pretreatment compliance inspector, safety instructor for public sector employees and as a Maine DEP Municipal and Industrial Wastewater Treatment Plant Permit Writer. Phyllis is a Certified Maine DEP Grade 5-B Wastewater Treatment Plant Operator, a Certified Maine DHHS Class 2 Drinking Water System Operator, a Registered Environmental Manager, a Certified Environmental and Safety Compliance Officer and a Certified Instructional Trainer.

Photo Release: By registering for this class, the attendee gives consent to MWUA to photograph their image to be used on the MWUA website, accessible to the public, social media posts and/or the MWUA newsletter. The attendee understands that no special compensation will be provided for use of their image and they will not be informed in advance of the specific use of their image.

ADA Compliance/Dietary Needs: Attendee should notify MWUA in advance if they have physical needs, so that MWUA can ensure their comfort and full participation.

Cancellations: Due to costs incurred by MWUA, if the attendee must cancel, MWUA requests seven business days before the start of the scheduled class/event for full reimbursement. Cancellations may be by phone, 207-623-9511 or email, cwade@mwua.org. Refunds will not be provided if cancellation request is not made within seven business days.