

## **ICMEE eWorkshop**

## **Math Fractions (Grades 3-5)**

**Essential Question**: What is the language of fractions and how can all students have access to it?

## **Guiding Questions:**

- **Unit 1:** What does mathematics teaching look like in a linguistically and culturally responsive classroom?
- Unit 2: What should teachers know to effectively teach fractions to multilingual learners?
- Unit 3: How can I make the teaching of comparing and contrasting fractions linguistically responsive?
- **Unit 4:** How can I help multilingual students understand the concepts of adding and subtracting fractions?
- Unit 5: How can I teach multiplication and division of fractions effectively in a linguistically diverse classroom?
- Unit 6: Answer the Essential Question.

## What is an eWorkshop?

Our eWorkshops are innovative online multi-media resources available free of cost to professional learning communities of educators who wish to collaboratively inquire into and improve their practice with bi/multilingual learners.

eWorkshops are inquiry oriented and are guided by an essential question and a guiding question for each of the six units in an eWorkshop. Each unit follows the same three-part learning cycle that we call *Explore*, *Make-It-Work*, and *Share*. In *Explore* participants spend 30-60 minutes exploring new ideas, content, concepts or perspectives. In *Make-It-Work*, participants are offered a minimum of two designed and completely supported options of how to make the new learning from *Explore* work in an actual classroom context. *Make-It-Work* takes around one hour of a participant's time and always has a "You Make-It-Work" option, which gives participants the flexibility to design their own approach or tweak one of the options we offered. Finally, participants *Share* their learning either in our online space (a threaded discussion) or Face-toFace. Share usually takes 30-60 minutes of a participant's time meaning that completing the three-part learning cycle of each unit takes about three hours. eWorkshop participants who complete all six units can receive a certificate of completion as well as use their work towards a course that will earn them one graduate level credit at the University of Nebraska Lincoln. To learn more about our eWorkshops, please visit: <a href="https://cehs.unl.edu/icmee/">https://cehs.unl.edu/icmee/</a>

