

ICMEE eWorkshop:

Writing in Science (Grades 3-12)

Essential Question: How can we teach academic writing through meaningful STEM activities?

Guiding Questions:

- **Unit 1:** What kind of meaningful science work can be used to launch an extended writing process?
- **Unit 2:** How can we improve engagement in science writing by identifying an audience?
- **Unit 3:** What pre-writing activities set up bilingual students for success with communicating scientific thinking?
- **Unit 4:** How can teachers and students set language goals that go beyond students' existing abilities?
- **Unit 5:** How can self and peer assessment lead to writing success without consuming every waking hour of teacher's time?
- **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: <https://cehs.unl.edu/icmee/>