## ICMEE eWorkshop 21st Century STEM Learning, Language and Culture (Grades K-12)

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**Essential Question:** How can language and culture be used to anchor 21st century STEM learning?

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**Guiding Questions:** 

- Unit 1: How do the Next Generation Science Standards cultivate learning, language development and
- cultural competency?
- Unit 2: Which cross-cutting concepts in science have parallel language conventions? How can they be
- used to leverage learning?
- Unit 3: How can strategies for technical communication be used to promote science learning practices?
- Unit 4: How do the core idea criteria statements support interdisciplinary literacy for students?
- Unit 5: How can technology be used to enhance language and content literacy for multicultural students?
- Unit 6: Answer the Essential Question.

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## 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: <u>https://cehs.unl.edu/icmee/</u>

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