



PROFESSIONAL LEARNING RESOURCES

Offered by the Battle Creek Area Mathematics and Science Center
For the 2019-20 School Year



Professional Learning Opportunities for K-12 Science Teachers	
<p>NGSX (Next Generation Science Exemplar System) for K-12</p> <ul style="list-style-type: none"> ➤ The focus of NGSX is integrating three-dimensional learning into science classrooms, in which teachers support students in using science and engineering practices to develop, apply, and refine disciplinary core ideas and crosscutting ideas. Teachers engage in these practices and investigate classroom cases to explore how to bring these approaches into their own classrooms. ➤ Prerequisite: None ➤ Cost: \$250 	<p>Dates (4 day series):</p> <p>Cohort 4: July 29, July 30, July 31, Aug. 1 or Cohort 5: Oct. 2, Oct 22, Nov. 8, Nov. 21 or Cohort 6: Feb. 5, Feb. 27, Mar. 13, Mar. 24.</p>
Professional Learning Opportunities for Elementary and Middle School Teachers	
<p>K-8 Science Leadership Network: K→3→6 Physical Science Learning Progression</p> <ul style="list-style-type: none"> ➤ Core Ideas and their related learning progressions are key organizing principals of the NGSS and the framework. This professional learning will promote ongoing refinement of K-8 implementation of the learning progression for PS2 Motion and Stability: Forces and Interactions as presented in the Cereal City Science Curriculum. Schools and teachers will collaborate within and across districts to share and gain expertise in implementing the NGSS. ➤ Prerequisite: NGSX, Member of Schools K-8 Science Leadership Network. ➤ Cost: Free for Member Districts*, \$25 for Nonmember Districts. 	<p>Date (1 day):</p> <p>November 6.</p> <p>(This K-8 leadership network will meet annually.)</p>
<p>K-8 Science Leadership Network: 2→5→7 Physical Science Learning Progression</p> <ul style="list-style-type: none"> ➤ Core Ideas and their related learning progressions are key organizing principals of the NGSS and the framework. This professional learning will promote ongoing refinement of K-8 implementation of the learning progression for PS1: Matter and Its Interactions. Schools and teachers will collaborate within and across districts to share and gain expertise in implementing the NGSS. ➤ Prerequisite: NGSX, Member of Schools K-8 Science Leadership Network. <p>Cost: Free for Member Districts*, \$25 for Nonmember Districts.</p>	<p>Date (1 day):</p> <p>November 13.</p> <p>(This K-8 leadership network will meet annually.)</p>



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<p>K-8 Science Leadership Network: 1→4→8 Physical Science Learning Progression</p> <ul style="list-style-type: none"> ➤ Core Ideas and their related learning progressions are key organizing principals of the NGSS and the framework. This professional learning will promote ongoing refinement of K-8 implementation of the learning progressions for PS3: Energy and PS4: Waves Their Application in Technology for Information Transfer as presented in the Cereal City Science Curriculum. Schools and teachers will collaborate within and across districts to share and gain expertise in implementing the NGSS. ➤ Prerequisite: NGSX, Member of Schools K-8 Science Leadership Network. Cost: Free for Member Districts*, \$25 for Nonmember Districts. 	<p>Date (1 day): November 20. (This K-8 leadership network will meet annually.)</p>
<p>K-8 Science Leadership Network: K→3→7 Earth Science Learning Progression</p> <ul style="list-style-type: none"> ➤ Core Ideas and their related learning progressions are key organizing principals of the NGSS and the framework. This professional learning will promote ongoing refinement of K-8 implementation of the learning progressions for ESS3: Earth and Human Activity as presented in the Cereal City Science Curriculum. Schools and teachers will collaborate within and across districts to share and gain expertise in implementing the NGSS. ➤ Prerequisite: NGSX, Member of Schools K-8 Science Leadership Network. Cost: Free for Member Districts*, \$25 for Nonmember Districts. 	<p>Date (1 day): April 15. (This K-8 leadership network will meet annually.)</p>
<p>K-8 Science Leadership Network: 1→5→6 Earth Science Learning Progression</p> <ul style="list-style-type: none"> ➤ Core Ideas and their related learning progressions are key organizing principals of the NGSS and the framework. This professional learning will promote ongoing refinement of K-8 implementation of the learning progressions for ESS1: Earth’s Place in the Universe as presented in the Cereal City Science Curriculum. Schools and teachers will collaborate within and across districts to share and gain expertise in implementing the NGSS. ➤ Prerequisite: NGSX, Member of Schools K-8 Science Leadership Network. Cost: Free for Member Districts*, \$25 for Nonmember Districts. 	<p>Date (1 day): April 22. (This K-8 leadership network will meet annually.)</p>



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K-8 Science Leadership Network: 2→4→8 Earth Science Learning Progression

- Core Ideas and their related learning progressions are key organizing principals of the NGSS and the framework. This professional learning will promote ongoing refinement of K-8 implementation of the learning progressions for ESS2: Earth's Systems as presented in the Cereal City Science Curriculum. Schools and teachers will collaborate within and across districts to share and gain expertise in implementing the NGSS.
 - **Prerequisite:** NGSX, Member of Schools K-8 Science Leadership Network.
- Cost:** Free for Member Districts*, \$25 for Nonmember Districts.

Dates (1 day):

April 29.

(This K-8 leadership network will meet annually.)

Please Note:

Registration forms for all of the professional learning opportunities listed above are available on the Cereal City Science website at [HYPERLINK "https://www.cerealcityscience.org/services"](https://www.cerealcityscience.org/services) <https://www.cerealcityscience.org/services> under the Professional Learning Card.

All sessions run from 8:00am to 3:30pm at the Battle Creek Area Mathematics and Science Center located at 171 Michigan Ave W, Battle Creek, MI 49017.

For information on membership to the K-8 Science Leadership Network contact Steve Barry at sbarry@bcamsc.org.

We do reserve the right to cancel workshops if less than 15 teachers are registered 2 weeks prior to the workshop.

Registration forms can be faxed to Cindy Older at 269.965.9540 or sent by email to Cindy Older at Cindy@bcamsc.org.

* Member Districts are school districts in the Calhoun Intermediate School District (CISD). These schools support the Battle Creek Area Mathematics and Science Center as the Unit/Kit program.