

5 things to know in July 2023



1

New STEM Teaching Tool: Guide to Gathering and Using Feedback From Learners



Educators can use practical measures to quickly capture and analyze data from their students and use the data to reflect on their science teaching practices and plan for next steps. This can help foster equitable learning opportunities by making educators more aware of how learners are feeling about and making sense of their learning experiences. This STEM Teaching Tool provides guidance for designing, implementing, and analyzing practical measures in today's science classrooms and shares examples of different types of practical measures that have been used with students, teachers, and implementation teams to sense progress.

See STEM Teaching Tool Practice Brief 94 [here](#) and the associated guide [here](#).

2

Let High School Science Teachers Know They're Not Alone

This EdReports article highlights the challenges high school science teachers have faced, particularly with the lack of high-quality instructional materials and three ways reviews of high school science programs can be used to overcome those challenges.

See the article [here](#).



3

Resource: Transforming Science Education Continuum

The [Texas Collaborative for Science Innovation](#) is a network of 13 Texas school districts who are collaborating to improve science teaching and learning in their communities. After building a shared vision of what science teaching and learning could look like under the state's new science standards, districts began using a tool to help make that vision a reality. The tool, called the Transforming Science Education Continuum, helps leaders consider long- and short-term goals in key areas (e.g., professional learning), reflect on the current state of their science programs, and determine next steps to move toward their vision.

See the resource [here](#).

4

Recording: Looking Ahead to the Next Decade of Science Standards

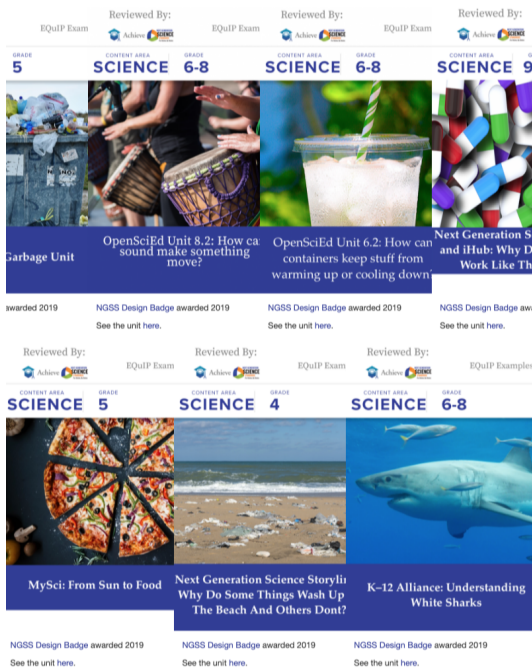
A recent National Academies of Sciences, Engineering, and Medicine event shared insights from science education leaders from across the country on what the field has learned so far about equitable access to science education and implications for future work over the next ten years. In the event, two new white papers were discussed: [History and Reflections on the Development of The Framework and Next Generation Science Standards](#), which discusses the development processes of *A Framework for K–12 Science Education* and the NGSS, along with trade-offs and decisions that informed the processes along the way; and [An Overview and Analysis of Review, Revision, and Adoption of State Science Standards](#), which includes recommendations for future state standards revisions.



See the event recording [here](#).

5

ICYMI: Quality Examples of Science Lessons and Units



The [nextgenscience.org](https://www.nextgenscience.org) website shines a spotlight on free and publicly available K–12 instructional materials that have received one of the top three ratings on the EQUIP Rubric from a [NextGenScience review](#). Each lesson or unit is available to download and use in a variety of ways to support high-quality science teaching and learning, including classroom use and professional learning experiences for educators. On each page, there is a link to the materials that were reviewed along with a copy of the feedback from the EQUIP review. Reviewing the feedback can be helpful when selecting, implementing, or modifying the materials.

See free quality examples from all grade bands [here](#).



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