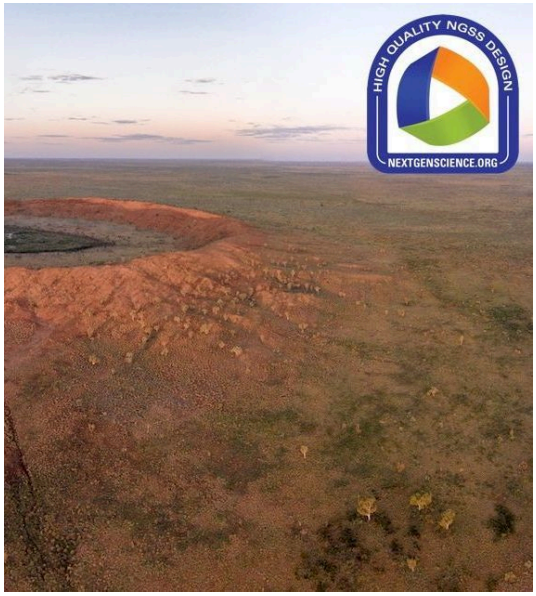
NGSS NOW

6 things to know in July 2024

1 Three New High-Quality High School Units Posted

In the OpenSciEd *P.3 Collisions & Momentum* unit, students analyze vehicle collision statistics and models and examine the motion of vehicles stopping suddenly as part of an engineering task to reduce injury risks. The unit was awarded the NGSS Design Badge by NextGenScience's cadre of expert reviewers

See the free unit and the corresponding EQuIP Rubric for Science evaluation report here.



The OpenSciEd *P.4 Meteors, Orbits, & Gravity* unit is anchored in the phenomenon of the Chelyabinsk meteor, which appeared as a large fireball over Siberia in 2013. This phenomenon provides a compelling context for investigating how and why objects from space sometimes collide with Earth. The unit was awarded the NGSS Design Badge by NextGenScience's Peer Review Panel.

See the free unit and the corresponding EQuIP Rubric for Science evaluation report here.

The OpenSciEd *C.5 Energy from Chemical & Nuclear Reactions* unit helps students figure out ways to address climate change by using chemistry to evaluate fuels and transportation options that can benefit the Earth and our communities. The unit was awarded the NGSS Design Badge by NextGenScience's Peer Review Panel.

See the free unit and the corresponding EQuIP Rubric for Science evaluation report here.

2 Blog Post: How Can I Find the Lesson Plans I Need to Use?

As educators plan for the upcoming school year, the most recent *On The Same Wavelength* blog post shares tips for ensuring that the instructional plan for students is coherent and effective. The post discusses the importance of starting with high-quality lessons and units when modifying to meet the needs of individual students and classrooms.

See the NextGenScience blog post here.

3 Equity in K–12 STEM Education: Framing Decision the Future

This latest report by the National Academies of Sciences, Engineering, and Medicine (NASEM) highlights the significant inequities in STEM education across the United States and offers recommendations to create a more equitable learning environment for all students. It provides strategies for states, districts, schools, and community members to make thoughtful decisions and systemic changes to ensure all students have access to high-quality STEM education.

See the NASEM report here and webinar here.

4 Boost Opportunities for Science Learning With Regional Alliances

This article discusses how regional alliances can transform science education by bringing together schools, businesses, and universities to improve teaching and learning. These partnerships can address science teacher shortages and better prepare students for STEM careers.

See the Issues in Science and Technology article here.

5 How I Came to Love Phenomena-based Science Instruction

"If you make the change to phenomenon based learning a continuous and gradual process, it'll be easier to manage than you might think–and it won't just benefit your students. It's made teaching exciting for me again. It has energized me and refreshed my excitement to teach new things. When my students feel connected to the information they're learning, it makes me feel confident that I am not just getting them ready for a test, but preparing them to spend their lives exploring and understanding the world around them."

See the eSchool News article here.

6 Podcast: Curriculum Implementation

Selecting and implementing high-quality instructional materials is an important lever to improve student outcomes in science. This podcast episode shares insights on challenges, innovations, and best practices for effectively adopting and implementing new curricula in schools, districts, and states.

See The Literacy View podcast here.

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