

Experts address ways to support latest science education standards

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The Next Generation Science Standards (NGSS) are K-12 science content standards, with three dimensions that are integrated in instruction at all levels: core ideas, science and engineering practices, and cross-cutting concepts. A new article in the *Journal of Research Science in Teaching* focuses on how to support enactment of the NGSS in diverse educational systems, including the challenges faced when some of those systems are fragmented and resource-poor. The article appears in a forthcoming JRST special issue on the NGSS, to be released online August 20, 2018.

The article highlights the Carbon TIME project, which focuses on teaching [carbon](#) cycling and energy transformations at multiple scales, as an example of a design-based implementation research approach that can achieve this goal. Carbon TIME includes publicly available teaching units, teacher professional development, and teacher networks based in local education agencies.

"The NGSS present us with both great opportunities and important challenges. I believe that we are both gaining insight into the challenges and designing systems that help students achieve three-dimensional learning at scale," said lead author Prof. Charles W. (Andy) Anderson, of Michigan State University.

More information: Charles W. Anderson et al, Designing educational systems to support enactment of the Next Generation Science Standards, *Journal of Research in Science Teaching* (2018). [DOI: 10.1002/tea.21484](https://doi.org/10.1002/tea.21484)

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