

Join us at our NGSS Summer Institutes in Summer 2018
Grades K-5: Monday August 6 – Friday August 10, 2018
Grades 6-12: Monday July 23 – Friday July 27, 2018

Are you NGSS ready? Do you understand how the NGSS core ideas differ from the science content we taught in the past? Do you know how to support students in using science and engineering practices and crosscutting concepts to construct explanations for natural phenomena or to design solutions to engineering problems?

The vision behind the NGSS is to provide students with foundational science knowledge and 21st century skills so that they are able to make sense of the natural world and construct explanations for *natural phenomena* (observable events). To make this vision a reality, the NGSS requires that students engage in *science practices* to explore how and why natural phenomena occur. As they construct explanations for these natural events they apply their understanding of *core ideas in science* and use *crosscutting concepts* to guide their thinking.



This summer, the Science Education Institute at Raritan Valley Community College will offer two different week-long Institutes designed to support teachers and supervisors of grades K-5 and grades 6-12 with the implementation of the NGSS. Participants will receive an in-depth introduction to the vision behind the NGSS and its three dimensions: the core ideas, the practices, and the crosscutting concepts. Participants will experience NGSS-aligned investigations in physical science, life science, earth science, and engineering. These investigations consist of a sequence of *performance tasks* that will engage participants in practices and require the use of core ideas and crosscutting concepts to construct science explanations or design engineering solutions. There will be multiple opportunities for participants to reflect on these investigations and to use an extensive *lesson planning guide* and a *nationally field-tested lesson template* to plan NGSS-aligned lessons.

Both week-long Institutes are held at Raritan Valley Community College in Branchburg, NJ. Each day begins promptly at 9 am and ends by 3:30 pm. Light breakfast and lunch will be provided.

The Institutes are led by Dr. Wil van der Veen, a nationally recognized expert on the NGSS and science education and a member of the New Jersey State Leadership Team for the NGSS. The Institute is co-facilitated by K-12 classroom teachers from the NGSS Teacher Leader Program.

The fee is \$300 for the week, or \$250 for registrations received by March 31, 2018.
Register early as our Summer Institutes tend to fill up quickly!

For more information and to register online visit our website at www.raritanval.edu/ngss or contact Mariel O'Brien at mariel.obrien@raritanval.edu or 908-526-1200 Ext 8942.

To develop a long-term NGSS professional development plan for your district, contact Dr. Wil van der Veen at wil.vanderveen@raritanval.edu.

