

science



generation

## Grades 6-8

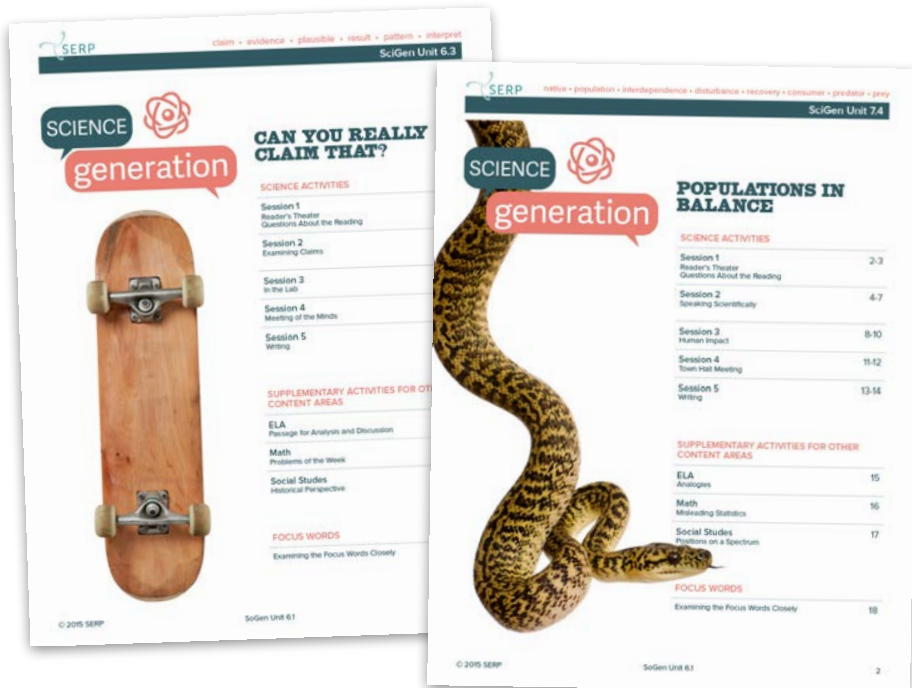
- 18 one-week in-depth units
- Designed to address topics teachers identified as lacking high quality treatments in other curricula
- Developed by teams of researchers and practitioners
- Tested in a broad range of classrooms
- Supports development of 21st century practices

## INSTRUCTIONAL ACTIVITIES IN EACH UNIT

- Reader's Theater
- Speaking Scientifically
- In the Lab
- Discussion/Debate
- Writing
- Brief supplementary activities for ELA, math, and social studies

## AREAS OF FOCUS

- Scientific Thinking
- Preparing a Scientific Investigation
- Measurement
- Life Science
- Energy
- Introductory Chemistry Concepts



# Interdisciplinary Science Units that Support Academic Literacy and Practices

Inspired by the original Word Generation program, Science Generation (SciGen) goes in-depth on science topics commonly taught to 6th, 7th, and 8th graders. These curricular materials can be used in place of the standard curriculum materials, or as a supplement. They provide opportunities to read, write, discuss, and build arguments about basic questions in science.

Each week-long unit is comprised of 40-50 minute science lessons each day and highlights 5-10 academic words. There are also supplementary activities for other content areas to continue the cross-disciplinary benefits of Word Generation. All activities relate to the central question or topic of the week, build relevant knowledge, and provide opportunities to encounter the new academic vocabulary in multiple semantic contexts. By bringing the scientific knowledge closer to students' lives, they are equipped with both the background knowledge and the tools to engage in scientific argumentation.

## PLUS:

## SciGen Teacher Dashboard

Online lesson plans contain visuals for teachers to project, interactive activities to share with students, labs, and some PDF handouts, as well. There are also helpful "teacher tune-ups" that address content-related questions that teachers told us would be helpful.



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All materials and teacher supports freely available!  
[serpinstitute.org/scigen](http://serpinstitute.org/scigen)