

## Alignment of Scientific Method Module to the Next Generation Science Standards

The Next Generation Science Standards (NGSS) were published in April 2013. They consist of statements that convey the performance expectations for students. Each performance expectation is a single statement that is built from three parts: science and engineering practices (Practices), disciplinary core ideas (DCI) and crosscutting concepts.

Since the Scientific Method Module was created prior to the release of these standards one would expect that it aligns most readily to the individual statements that articulate the practices or crosscutting concepts. The background material, reading, and the slides from the module address the aspects of the NGSS shown in Table 1.

**TABLE 1. ALIGNED PRACTICES, DISCIPLINARY CORE IDEAS, AND CROSSCUTTING CONCEPTS**

*No alignments*

## Alignment of Scientific Method Module to the Common Core State Standards for English Language Arts/Literacy and Mathematics

The Common Core State Standards (CCSS) were published in June 2010. They articulate student skills for English language arts/literacy and mathematics. The content of the module addresses the concepts and skills shown in Table 3.

For English language arts/literacy, the CCSS is organized around College and Career Anchor Standards (CCR) that articulate the over-arching skills that students need to be prepared for college and career. There are grade level versions of each Anchor Standard, as well as versions for science and social studies classrooms (literacy standards). Alignments in Table 3 were made to the Anchor Standards, unless a more specific version of the standard was a closer fit to the skills in the module.

**Table 3. Aligned Common Core Standards for English Language Arts & Literacy**

RST.11–12.3: Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text. *Partial in teacher and student materials*

For mathematics, Table 4 shows alignments to standards found in the 8<sup>th</sup> through 12<sup>th</sup> grade levels.

**TABLE 4. ALIGNED COMMON CORE STANDARDS FOR MATHEMATICS**

*No alignments*