

Alignment of Nanoparticles and Sunscreen Module to the Common Core State Standards in English Language Arts/Literacy and Mathematics

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.

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

| PRACTICE | DCI | CROSSCUTTING CONCEPT |
|--|---|-----------------------------|
| <p><i>HS. Analyzing and interpreting data: Analyze data using tools, technologies, and/or models (e.g., computational, mathematical) in order to make valid and reliable scientific claims or determine an optimal design solution.</i></p> <p><i>Partial in student materials</i></p> | <p><i>MS-PS4.B: Electromagnetic Radiation: When light shines on an object, it is reflected, absorbed, or transmitted through the object, depending on the object's material and the frequency (color) of the light.</i></p> <p><i>Strong in teacher and student materials</i></p> | <p><i>No alignments</i></p> |