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## Professional Resources

### Implementation Resources

- NGSS District [Implementation Workbook](#)
- NGSS District [Implementation Indicators](#)
- [Lessons Learned from the Early Implementer Districts](#): Professional Learning
- [Guide to Implementing](#) the NGSS
- [NGSS: An Overview for Principals](#)
- [Hallmarks of a Fully Realized School System](#)
- [What Strategies are needed for Successful Implementation of the NGSS?](#)
- [Instructional Leadership for Science Practices](#): A tool to help Principals understand the NGSS
- [Supporting the Implementation of NGSS Through Research: Professional Development](#)

### Videos

- 2013 Summit Presentation: [School District Implementation of the NGSS](#)

### Professional Development Resources

- American Museum of Natural History:
  - [Five Tools and Processes for Translating the NGSS Into Instruction and Classroom Assessment](#)
- Smithsonian *Science Education Center*:
  - [Elementary Science Education: The Next Generation](#)
- [NSTA NGSS Web Seminar Series](#)
- [Introducing Teachers and Administrators to the NGSS](#)
- [What's Your Evidence? Engaging K-5 Children in Constructing Explanation in Science](#)
- [Perspective: Improving STEM Education with NGSS](#)
- [Mathematics and Science Partnership Grant Program](#)
- [Proficiency-Based Graduation Requirements](#)
- [OER Commons Science 20/20](#)

### Videos

- NGSS: [The Vision for Science Education and the New Role of Teachers](#)
- NGSS: [What NGSS Looks Like in the Classroom](#)
- [Bozeman Science: NGSS](#)

## Curriculum Development

### Storylines and Example Course Mapping/Modeling

- [Grades K-2](#)
  - [Kindergarten](#)
  - [Grade 1](#)
  - [Grade 2](#)
- [Grades 3-5](#)
  - [Grade 3](#)
  - [Grade 4](#)
  - [Grade 5](#)
- Middle School
  - [Standards-Organized Model](#)
  - [Theme-Based Model](#)
- High School
  - [NGSS Model Course Maps](#)

## Curriculum Development

- NSTA: [Planning an NGSS Curriculum](#)
- NSTA: [Designing Units and Lessons](#)
- NSTA: [Selecting Learning Materials](#)
- [Bundling the NGSS](#)
- [Five Tools and Processes for Translating the NGSS Into Instruction and Classroom Assessment](#)
- [Next Generation Science Storylines](#)
- [Ambitious Science Teaching](#)
- [Curriculum Materials Make a Difference for Next Generation Science \(NGS\) Learning](#)
- Supporting the Implementation of NGSS through Research:
  - [Informal Science Education](#)
  - [Engineering](#)
  - [Curriculum Materials](#)

## Phenomena

- [Anchoring Phenomena](#): The NGSS explains the importance of Phenomena-based science education
- [Using Phenomena in an NGSS Designed Instruction](#): A three minute interview with Brian Reiser and how Phenomena connects with the Next Generation's 3D learning
- [Qualities of a Good Anchor Phenomenon](#): A list of indicators to compare phenomena to
- [Phenomena for NGSS](#): A collection of phenomena that can be instructionally productive
- [#ProjectPhenomena](#): A database of phenomena broken down by NGSS DCI
- [Storyline Template](#): A base for educators to use to build a lesson around an anchoring phenomenon
- [Using NGSS Phenomena to Engage Students](#)

## Alignment Tools

- [EQuIP Rubric for Lessons and Units: Science](#)
- [NGSS Lesson Screener](#)
- [Primary Evaluation of Essential Criteria \(PEEC\) for NGSS Instructional Materials Design](#)
- [NSTA NGSS Tools](#)

## Project-Based Learning (PBL) and NGSS

- [Project based learning and the NGSS](#)
- [The Project Approach: Project-based learning for K-12](#)
- [Project Based Learning meets the NGSS](#)
- [PBL Science Empowered by Discussion Forums](#)