

**NEXT GENERATION SCIENCE STANDARDS  
TOPICS BY GRADE LEVEL  
GRADE 2**

**STRUCTURE AND PROPERTIES OF MATTER**

- Describe and classify different kinds of materials by their observable properties
- Which materials have the properties that are best suited for an intended purpose
- An object made of a small set of pieces can be disassembled and made into a new object
- Some changes caused by heating or cooling can be reversed and some cannot

**INTERDEPENDENT RELATIONSHIPS IN ECOSYSTEMS**

- Plants need sunlight and water to grow
- A simple model that mimics an animal in dispersing seeds or pollinating plants
- Plants and animals and the diversity of life in different habitats

**EARTH'S SYSTEMS: PROCESSES THAT SHAPE THE EARTH**

- Earth events can occur quickly or slowly
- Wind and/or water can change the shape of the land
- The shapes and kinds of land and bodies of water in an area
- Where water is found on Earth and that it can be solid or liquid

**ENGINEERING DESIGN**

- Ask questions, make observations and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
- Develop a simple sketch, drawing or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
- Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

\*\*Go to [www.nextgenscience.org](http://www.nextgenscience.org) for Clarification Statements, Science and Engineering Practices, Disciplinary Core Ideas and Cross Cutting Concepts for each topic listed above. You will also find all of the connections to the Common Core for both ELA/Literacy and Mathematics.