

## Standards

### Next Generation Science Standards

The Next Generation Science Standards (NGSS) are divided into three dimensions: Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts. All Mighty Acorns lessons are aligned to support all three dimensions of the NGSS.



#### Science and Engineering Practices

Eight practices which describe behaviors that scientists and engineers use as they design and build models and systems.

1. Asking questions and defining problems
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations and designing solutions
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information

#### Crosscutting Concepts

Seven concepts that have application across all domains of science.

1. Patterns
2. Cause and effect: Mechanism and explanation
3. Scale, proportion, and quantity
4. Systems and system models
5. Energy and matter: Flows, cycles and conservation
6. Structure and function
7. Stability and change



### Common Core State Standards

Select lessons also adhere to Common Core State Standards

#### Disciplinary Core Ideas

The key ideas students need to understand in order to be literate in science. These key ideas span four domains of science.

1. Earth and space science
2. Engineering, technology and applications of science.
3. Life science
4. Physical science