

<b>First Grade Science Course Overview</b>	
<b>Course Description</b>	
<b>Credits</b>	<b>Prerequisites</b>
NA	NA
<b>Board Approved</b>	<b>Revised</b>
Pending Board Approval 5/24/21	NA
<b>Required Assessments</b>	
District-wide, standards-based assessments identified	
<b>Textbooks/Resources</b>	
<a href="https://mysteryscience.com/lessons/seasonal/spring">https://mysteryscience.com/lessons/seasonal/spring</a>	
<b>AASD Science Goals for K-12 Students</b>	<b>As a result of successfully completing this course, students will be able to...</b>
<p><b>AASD Science Goals</b></p> <ul style="list-style-type: none"> <li>• <i>Students will demonstrate an understanding of key science concepts and apply them to their world.</i></li> <li>• <i>Students will demonstrate knowledge and understanding that scientific knowledge is continually undergoing revision and refinement based on new experiments and data.</i></li> <li>• <i>Students will demonstrate knowledge and understanding that the process of science is based on questioning and providing empirical evidence to support claims.</i></li> <li>• <i>Students will apply scientific concepts and processes to evaluate consequences and make informed, responsible choices (regarding self, others, environment).</i></li> <li>• <i>Students will demonstrate an understanding that science and technology are critical in order to provide and evaluate alternative solutions to problems in our world.</i></li> <li>• <i>Students will engage in STEM experiences as both scientists and engineers in order to prepare for postsecondary and career readiness.</i></li> </ul> <p><b>AASD Science Mission Statement</b>                      The Appleton Area School District believes the study of science should encourage our students to examine the world around them. Students will become scientifically literate, applying scientific and engineering thinking, reasoning, and knowledge throughout their lives. Using scientific processes and principles, students will apply critical thinking skills in order to make informed and responsible decisions.</p> <p><a href="#">AASD Science Guiding Principles</a></p>	<ul style="list-style-type: none"> <li>• Use science and engineering practices, crosscutting concepts, and an understanding of <i>Plant &amp; Animal Superpowers</i> to make sense of phenomena and solve problems.</li> <li>• Use science and engineering practices, crosscutting concepts, and an understanding of <i>Spinning Sky</i> to make sense of phenomena and solve problems.</li> <li>• Use science and engineering practices, crosscutting concepts, and an understanding of <i>Lights and Sounds</i> to make sense of phenomena and solve problems.</li> </ul>
<b>Essential Questions</b>	
<p><i>What thought-provoking questions will foster inquiry, meaning-making, and transfer?</i></p> <p><b>Unit 1</b></p> <ul style="list-style-type: none"> <li>• Why do birds have beaks? (1-LS1-1)</li> <li>• Why do baby ducks follow their mother? (1-LS1-2)</li> <li>• Why are polar bears white? (1-LS1-1)</li> <li>• Why do family members look alike? (1-LS3-1)</li> <li>• Why don't trees blow down in the wind? (1-LS1-1, K-2-ETS1-2, K-2-ETS1-3)</li> <li>• What do sunflowers do when you're not looking? (1-LS1-1)</li> </ul> <p><b>Unit 2</b></p> <ul style="list-style-type: none"> <li>• Could a statue's shadow move? (1-ESS1-1)</li> <li>• Read-Along: What does your shadow do when you're not looking? (1-ESS1-1)</li> <li>• How can the sun help you if you're lost? (1-ESS1-1)</li> <li>• Why do you have to go to bed early in the summer? (1-ESS1-2)</li> <li>• Why do the stars come out at night? (1-ESS1-1)</li> <li>• How can stars help you if you get lost? (1-ESS1-1)</li> </ul> <p><b>Unit 3</b></p> <ul style="list-style-type: none"> <li>• How do they make silly sounds in cartoons? (1-PS4-1)</li> <li>• Where do sounds come from? (1-PS4-1)</li> </ul>	

- What if there were no windows? (1-PS4-3)
- Can you see in the dark? (1-PS4-2)
- How could you send a secret message to someone far away?  
(1-PS4-4, K-2-ETS1-2)
- How do boats find their way in the fog? (1-PS4-4)

## Unit Overview

### Unit #1 - Plant & Animal Superpowers

This unit will help students develop the idea that, like a superhero has special powers, every animal and plant has special parts and behaviors that help them to grow and meet their needs.

**Instructional Standards:** 1-LS1-1, 1-LS1-2, 1-LS3-1, K-2-ETS1-2, K-2-ETS1-3

**Assessed Standards:**

### Unit #2 - Spinning Sky

This unit will help students develop the idea that the Sun, Moon, and stars change position in the sky in ways that are fun to watch and predict.

**Instructional Standards:** 1-ESS1-1, 1-ESS1-2

**Assessed Standards:**

### Unit #3 - Lights & Sounds

This unit will develop the idea that by exploring the properties of light and sound, human beings create fun and useful things.

**Instructional Standards:** 1-PS4-1, 1-PS4-3, 1-PS4-4, K-2-ETS1-2

**Assessed Standards:**