

Kindergarten Science Course Overview	
Course Description	
Credits	Prerequisites
NA	NA
Board Approved	Revised
Pending Board Approval 5/24/21	NA
Required Assessments	
District-wide, standards-based assessments identified	
Textbooks/Resources	
https://mysteryscience.com/lessons/seasonal/spring	
AASD Science Goals for K-12 Students	As a result of successfully completing this course, students will be able to...
<p>AASD Science Goals</p> <ul style="list-style-type: none"> • Students will demonstrate an understanding of key science concepts and apply them to their world. • Students will demonstrate knowledge and understanding that scientific knowledge is continually undergoing revision and refinement based on new experiments and data. • Students will demonstrate knowledge and understanding that the process of science is based on questioning and providing empirical evidence to support claims. • Students will apply scientific concepts and processes to evaluate consequences and make informed, responsible choices (regarding self, others, environment). • Students will demonstrate an understanding that science and technology are critical in order to provide and evaluate alternative solutions to problems in our world. • Students will engage in STEM experiences as both scientists and engineers in order to prepare for postsecondary and career readiness. <p>AASD Science Mission Statement <i>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.</i></p> <p>AASD Science Guiding Principles</p>	<ul style="list-style-type: none"> • Use science and engineering practices, crosscutting concepts, and an understanding of <i>Plant & Animal Secrets</i> to make sense of phenomena and solve problems. • Use science and engineering practices, crosscutting concepts, and an understanding of <i>Weather Watching</i> to make sense of phenomena and solve problems. • Use science and engineering practices, crosscutting concepts, and an understanding of <i>Force Olympics</i> to make sense of phenomena and solve problems.
Essential Questions	
<p><i>What thought-provoking questions will foster inquiry, meaning-making, and transfer?</i></p> <p>Unit 1</p> <ul style="list-style-type: none"> • Why do woodpeckers peck wood? (K-LS1-1) • Where do animals live? (K-LS1-1) • How can you find animals in the woods? (K-LS1-1) • How do animals make their home in the forest? (K-ESS2-2) • How do plants and trees grow? (K-LS1-1) • How do plants and trees grow? (K-LS1-1) • Why would you want an old log in your backyard? (K-ESS3-3) <p>Unit 2</p> <ul style="list-style-type: none"> • Have you ever watched a storm? (K-ESS2-1) • How can you get ready for a big storm? (K-ESS3-2) • What will the weather be like on your birthday? (K-ESS2-1) • How do you know what to wear for the weather? (K-ESS2-1) • How could you warm up a frozen playground? (K-PS3-1, K-PS-2, K-2-ETS1-2, K-2-ETS1-3) • How could you walk barefoot across hot pavement without burning your feet? (K-PS3-1, K-PS3-2) <p>Unit 3</p> <ul style="list-style-type: none"> • What's the biggest excavator? (Foundational for K-PS2-1, K-PS2-2) • How can you knock down a wall made of concrete (K-PS2-1, K-PS2-2) 	

- Why do builders need so many big machines? (**Foundational for K-PS2-1, K-PS2-2**)
- How can you knock down the most bowling pins? (**K-PS2-1**)
- How can we protect a mountain town from falling rocks? (**K-PS2-2, K-2-ETS1-2, K-2-ETS1-3**)
- How could you invent a trap? (**K-PS2-2, K-2-ETS1-2**)

Unit Overview

Unit #1 - Plant & Animal Secrets

Animals and plants need things in order to survive, and their lives are *all* about meeting those needs. It's the secret to why they do the many strange and wonderful things they do! Knowing how they meet their needs can even help you find plants and animals near where you live.

Instructional Standards: K-LS1-1, K-ESS2-2, K-ESS3-1, K-ESS3-3

Assessed Standards:

Unit #2 - Weather Watching

This unit will help students develop the habit of becoming weather watchers who take pleasure in noticing weather patterns and predicting changes.

Instructional Standards: K-ESS2-1, K-ESS3-2, K-PS3-1, K-PS3-2, K-2-ETS1-2, K-2-ETS1-3

Assessed Standards:

Unit #3 - Force Olympics

This unit will help students develop their first concept of "force," and the idea that by playing with forces and thinking about them, we can accomplish surprisingly big things.

Instructional Standards: **Foundational for K-PS2-1, K-PS2-2, K-2-ETS1-3**

Assessed Standards: