

# Elementary Science



**Next Generation Science Standards (NGLS)**  
**New York State Science Learning Standards (NYSSLS)**

# Amplify Elementary Science

New Science Standards required a complete reworking of the elementary science curriculum.

Amplify is a comprehensive program including digital resources, literature, and hands-on materials.

In 2019, after piloting several programs, the district adopted Amplify, with a four-year roll out.

Amplify materials have been, and continue to be, modified by our teachers.

AmplifyScience



## Earth's Features:

Mystery in Desert Rocks Canyon



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# Our Science Units Follow the Next Generation Science Learning Standards

Dates indicate when the unit was first taught in SHUFSD; the district rolled out Amplify units over four years.

## **K**

Needs of Plants and Animals (2019-20)  
Sunlight and Weather (2020-21)  
Pushes and Pulls (2021-22)

## **Grade 1**

Spinning Earth (2019-20)  
Animal and Plant Defenses (2020-21)  
Light and Sound (2021-22)

## **Grade 2**

Changing Landforms (2019-20)  
Plant and Animal Relationships (2020-21)  
Properties of Materials (2021-22)

## **Grade 3**

Balancing Forces (2019-20)  
Inheritance and Traits (2020-21)  
Weather and Climate (2021-22)  
Environments and Survival (2022-23)

## **Grade 4**

Waves, Energy, and Information (2019-20)  
Earth's Features (2020-21)  
Energy Conversions (2021-22)  
Vision and Light (2022-23)

## **Grade 5**

Patterns of Earth and Sky (2019-20)  
Earth's Systems (2020-21)  
Modeling Matter (2021-22)  
Ecosystem Restoration (2022-23)

# The Challenge

Elementary Science is foundational for success in middle and high school.

The new standards shifted expectations. Rather than just memorizing facts, students dive deeply into phenomena, using science and engineering practices to discover core ideas and concepts that align with Mathematics and English Language Arts.

Young students are figuring things out - doing, thinking, reading, writing and arguing like scientists.



# Let's take a look at what our students are doing....

Students in grade 4 at BW and MW have been investigating how sedimentary rock forms. They need to understand this so they can answer a bigger question: What do rock formations tell us about how environments have changed over time?

They've been making models to help them investigate. Today they'll show us how!



## Grade 4 Scientists:

### MW

Ms. Brendel and Mr. Dwyer's class:

Elianna Lonardo

Olivia Rutledge

Matthew Weis

Harry Wei

### BW

Ms. Kristen Lopez and Ms. Deanna Knopf's class:

Victor Brown

Valentina Guerriero

Jaden Jacome

Sophie Karp

