



# Activate Learning **PRIME**<sup>™</sup>

## Introducing a new K-5 Science Program

*The elementary-grades component of Activate Learning K-8 Science*

*Activate Learning PRIME* is a K-5 curriculum developed by UChicago STEM Education, known to be at the forefront of best practices in science education. Each unit—available in both print and digital formats—addresses the **Ohio Science Standards** and interweaves each element of three-dimensional learning.

### Instructional Design with Students in Mind

*Activate Learning PRIME* engages students with phenomena-driven activities that encourage students to observe their surroundings and to make, express, and refine conclusions about the physical and natural world.

*Activate Learning PRIME* promotes understanding of key science concepts while incorporating core learning goals in English Language Arts and Mathematics standards.

- Science Processes
- Critical-Thinking Skills
- Problem-Solving Strategies
- English Language Arts standards
- Mathematics Standards
- Science and Engineering Practices

The science inquiry activities provide a real-world context for mathematics and language skill development, resulting in more confidence and higher achievement.

### Greater Focus on Engineering and Technology
























*Activate Learning* units integrate Engineering Design Projects at each grade level, providing students with opportunities to apply science concepts to engineering questions and problems. For example, in Grade 1 (*Light and Sound*), students build an instrument that can change volume and pitch. At Grade 4, students analyze the structure and function of a human joint, and then apply their understanding to designing a robotic arm that could collect samples on Mars (*Structures in Living Things*).

### Digital Interactivity that Supports Classroom Discourse

Hands-on materials, active discussions, and purposeful collaboration on all aspects of inquiry are interwoven in *Activate Learning PRIME*. Teachers are able to meet the challenge of ELA, Math and Science learning goals as the highly interactive learning environment facilitates all aspects of instruction.



Ohio Science Standards Scope and Sequence

Lower Elementary (K-2)	Upper Elementary (3-5)
<p style="text-align: center;"><b>Kindergarten</b></p> <ul style="list-style-type: none"> <li> Watching the Sky</li> <li> Plants and Animals</li> <li> Tracking the Weather</li> <li> Light and Sound</li> </ul>	<p style="text-align: center;"><b>Grade 3</b></p> <ul style="list-style-type: none"> <li> Solids Liquids and Gases</li> <li> Earth Systems</li> <li> Patterns in Life Cycles</li> <li> Inheritance and Variation</li> </ul>
<p style="text-align: center;"><b>Grade 1</b></p> <ul style="list-style-type: none"> <li> Push and Pulls</li> <li> Examining Living Things</li> <li> Land, Water and Wind</li> </ul>	<p style="text-align: center;"><b>Grade 4</b></p> <ul style="list-style-type: none"> <li> Investigating Matter</li> <li> Technology and Energy</li> <li> Structures in Living Things</li> <li> Our Geosphere</li> </ul>
<p style="text-align: center;"><b>Grade 2</b></p> <ul style="list-style-type: none"> <li> Weather and Climate</li> <li> Diversity in Habitats</li> <li> Changing Environments</li> <li> Forces in Action</li> </ul>	<p style="text-align: center;"><b>Grade 5</b></p> <ul style="list-style-type: none"> <li> Waves</li> <li> Ecosystems</li> <li> Energy Transfer</li> <li> Earth in Space</li> </ul>

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