



Nevada STEMList of Recommended STEM Programs

June 2024

Investigating Everyday Phenomena (hand2mind)



Program Overview

Explore real-world phenomena through hands-on investigation. With these engaging, all-inclusive units, students will deepen their understanding of three-dimensional science and engineering topics through student-led inquiry. Each of the 5 standards-aligned lessons in a unit progresses through the 5E Model or Engineering Design Process, allowing students to build on prior knowledge as they explain and analyze various phenomena. The flexible design of the program enables teachers to successfully integrate compelling science instruction into their classroom routine.

Target Population Grades or Ages: Grades K-5 (Ages 4+)

A Unique or Special Focus of the Program

Investigating Everyday Phenomena includes four (4) units per grade that cover life science, physical science, earth science, and engineering. Each unit comes with:

- Teacher guide includes five (5) lessons and provides explicit, step-by-step instructional support
- Grade-specific, hands-on material kits for 30 students or 6 groups
- 3-year eReader license with exclusive digital content and Spanish translations of student-facing materials

Impact on Participants

Through these engaging, all-inclusive units, students will deepen their understanding of three-dimensional science and engineering topics through student-led inquiry. Each of the five (5) standards-aligned lessons in a unit progresses through the 5E Model or Engineering Design Process, allowing students to build on prior knowledge as they explain and analyze various phenomena.

Specific Skills

- Real-World Phenomena: Each unit starts with a relatable Driving Question. Students build on prior knowledge as they explore the Driving Question and investigate the phenomenon.
- Follows the 5E Model or Engineering Design Process: Each science unit aligns to the 5E Model, and each engineering unit aligns to the Engineering Design Process, facilitating student-led inquiry.
- Vocabulary and Literacy Integration: Literacy standards are embedded into lesson designs, with each unit including robust vocabulary exploration through a vocabulary word wall. K-2 units also include a nonfiction text to contextualize learning.
- Teacher Background Support: Teacher Guides feature a short overview of the science covered in the unit, as well as examples of common misconceptions.

Resources Provided to Facilitators/Users

- Teacher Guide includes five (5) lessons and provides explicit, step-by-step instructional support. Teacher Guides also include teacher background support, a nonfiction text (K-2 only), vocabulary exploration, differentiation, and EL support.
- Ready-to-go kits include hands-on materials for 30 students for 2 years of use – refill kits are also available.
- Each lesson takes only 20 to 30 minutes to complete.
- Included eReader license provides access to additional digital materials.

Website

<https://www.hand2mind.com/supplemental-curriculum/stem/investigating-everyday-phenomena>

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