SAVVAS

K-5 LEVELED PHENOMENA AND STEM ENGINEERING READER SERIES





Experience IT! through Reading

Literacy skills are critical to learning science content. Now you can add the *Leveled Phenomena Reader* Series to your *Elevate Science* curriculum, or to any core ELA or other science program, to enhance student learning. Savvas has partnered with Rubicon Publishing, an award-winning learning company, to support students of all reading levels to access critical science topics and concepts.



Meaningful Student Discourse

The text requires students to observe, analyze, and evaluate **phenomena** in the real world. The **Leveled Phenomena Readers Series** is designed with scaffolded text complexity to allow *all* students to share in meaningful conversations around the same science concepts.

Vocabulary taught in context

Seasons Change

he environments that plants and animals live in are called habitats. Habitats change with the seasons. Some habitats have hot and cold seasons. Others have wet and dry seasons. Some places even have a stormy season. When a habitat changes, the plants and animals living in it can be **affected**.

Think alouds contain key ideas

That's Amazing!

Monarch butterflies leave their habitats when the season changes. They can fly almost 5,000 kilometers to find warmer places in the fall! Living things are sometimes able to **adapt** to changes. This might mean that they eat different food. Or they may act differently or change their appearance. Adapting helps living things stay alive. But not all living things are able to adapt to the changes in their environment. If a living thing isn't able to adapt, it may not **survive**.

Did You Know?

A group of butterflies is called a kaleidoscope or a swarm.

Did You Know? inspires wonder

Say hello to our STEM Engineering Readers

- Apply engineering practices to solve problems
- Engage students in real-world phenomena
- Include project-based learning experiences
- Support close reading of complex text
- Require students to compare and synthesize information

Elevate STEM and Improve Literacy

What does it take to build a video game or design the ultimate playground? **STEM Engineering Readers** are on-level texts for Grades K-5. Students learn how real scientists and engineers work to solve a problem and design a solution. They apply science and engineering practices, critical thinking, and literacy skills to investigate real-world phenomena.



Living Things and Their Environments



STEM Engineering Reader

Define It	Engineers design things that work.	
Model It	They also design ways for things to work better.	
Build It		
mprove It		
Design It		

Make a list of the fences you see every day. What do you think they are designed to do? Pick one fence you think could be designed to work better. What would you change about it?

- Introduces engineering models
- Tasks apply engineering practices
- Prompts focus reading

Lesson Plans

Leveled Phenomena and STEM Engineering Reader Lesson Plans are available for each topic. Each lesson plan provides a concept summary, differentiated support, literacy skill focus, collaborative conversations, and curriculum connection.

Living Things and Their Environments



Learn About Living Things and Their Environments by Jolene Kamstra BL Below Level Lexile Measure 630L

Summary



Living Things and Their Environments by Jolene Kamstra 💁 On Level Lexile Measure 730L



All About Living Things and Their Environments by Jolene Kamstra Advanced Lexile Measure 860L

Each book in this set of readers investigates how plants and animals adapt to their environments. The books present a range of ways in which living things respond to changes in temperature and precipitation as well as natural disasters, such as forest fires and floods. Examples of both familiar and unusual plants and animals help students see the diversity of responses available to various species

BEFORE READING

Building Background

BL OL A adapt, affected, survive

Vocabulary



Go Online!

The Leveled Phenomena Reader Series and STEM Engineering Readers are available online on SavvasRealize.com. Project the readers for whole group instruction, utilize them in a technology learning center, or assign them for reading at home!

> Use the audio feature as differentiated support or as a read-along for reluctant readers.

Hot and Cold

When the season changes, the outdoor temperature may change as well. Plants and animals living in areas that become very hot or very cold have different ways of adapting.

Cold Weather

Some places in the world get very cold in the winter. Many species have adaptations that allow them to survive in cold weather.

Losing Leaves

Some trees survive the winter because they stop sending water and nutrients to their leaves. The leaves drop off, but the tree lives. New leaves grow once the warm weather returns.

Did You Know?

The stems and flowers on certain plants die in the winter. But their roots can survive underground.



Thick Winter Fur

weather by growing extra fur. Extra fur helps to keep these animals warm. In the spring they shed the extra fur. An example of an animal that grows extra fur is a lynx.

Hibernation

Other animals sleep through the winter, or hibernate. A hibernating animal may sleep for months. Many bears hibernate.

Migration

⊙ (10-11/26) ⊙ ↔ ♀ □ ◘ Ⅱ ☑ ∠ ♡

When the weather gets colder, some animals **migrate** to a warmer habitat. Migrating animals can travel many kilometers every year. Some birds are known to migrate.

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Highlight, create notes, and zoom in for the visually impaired.

Leveled Phenomena and STEM Engineering Reader Library by Topic



KINDERGARTEN Pushes and Pulls Sunlight Earth's Weather Needs of Living Things Environments Matter



GRADE 3 Motion and Forces Electricity and Magnetism Weather Climate Life Cycle and Traits Living Things and Their Environments Fossil Evidence



GRADE 1 Sound Light Sky and Earth Living Things Parents and Offspring



GRADE 4

Energy and Motion Human Use of Energy Waves and Information Earth's Features Earth's Natural Hazards The History of Planet Earth Structures and Functions Human Body Systems



GRADE 2 Properties of Matter Changing Matter Earth's Water and Land Earth's Processes Plants and Animals Habitats



GRADE 5

Properties of Matter Changes in Matter Earth's Systems Earth's Water Human Impacts on Earth's Systems Solar System Patterns in Space Matter and Energy in Ecosystems Energy and Food

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