

Exploring SCIENCE through Literacy

Literacy and Content Support for the Next Generation Science Standards (NGSS)

 Leveled science readers support core ideas from the NGSS

Grades K-5

English & Spanish

- Combine literacy skills and science content development in each lesson
- National Geographic images and Explorers capture student interest

Supplemental Support for the Next Generation Science Standards

Leveled science readers support Disciplinary Core Ideas from the NGSS. Multiple reading levels provide core idea content, and National Geographic images and graphics capture student interest. Online Teacher's Guides support science content and literacy skills enhancement in the same lesson.



Grades K–2 Components

Support reading skills development and introduce core ideas in science topics based on the NGSS.

Become an Expert

- Designed for small group reading
- Three reading levels on the same Big Ideas topic
- Groups share and compare what they learn from their title

Explore On Your Own

- Designed for independent reading
- Three reading levels on the same Big Ideas topic
- Further exploration on topics that interest students

Write About Big Books

- Models persuasive writing
- Used as a basis for students to write their own science opinion piece





for food

Animals must have plants or other ani









Continue more advanced literacy skills development with engaging National Geographic images and National Geographic Explorers who introduce students to real-world science.

- Designed for whole class or small group reading
- Differentiate with identical content and images at 3 reading levels per title
- Each title contains 3-4 articles written in a variety of genres
- High-interest, student-centered topics

EADING OBJECTIVES
Determine the main ideas and explain how key
details support the main ideas

eas. • Determine the meaning of science words.

- Use text features to locate information
- SCIENCE OBJECTIVES
- Understand how work, forces, and forms of energy are demonstrated in roller coasters



Online Teacher's Guides Grades K-5

The online Teacher's Guides include activities to extend content vocabulary and increase reading, writing, and speaking skills while addressing the core science concepts.

- Includes ELL support



Wild Coasters

BUILD VOCABULARY & CONCEPTS

READ

TURN & TALK

evisit the Read to find o

WRITE & ASSESS

Introduce science background and vocabulary

- Combine science content and literacy instruction in one lesson

Additional writing and research activities increase engagement

Use Exploring Science through Literacy to supplement Exploring Science

During instruction from Exploring Science, use related Exploring Science through Literacy titles to extend informational text reading and expand science content knowledge on specific Disciplinary Core Ideas.

Use Exploring Science as the basis for Disciplinary Core Idea instruction

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Grade 3 Example LS2.C: Ecosystem Dynamics, Functioning, and Resilience LS4.D: Biodiversity and Humans

Use Exploring Science through Literacy to extend reading on the same topic

Grade 3 Example Tropical Rain Forest Adventure



Earth's rain forests are in danger. More than half of them have been cut down or burned. If people continue to remove trees, scientists worry that the rain forests could be gone in 100 years!

It's important to save our rain forests. They're valuable to wildlife, people, and the environment. Their beauty is enjoyed by people around the world.

Millions of plants and animals live in rain forests. When forests are cut down, there's no place for their creatures to live. They might go **extinct**, or no longer exist on Earth.

When trees are cut down, there are no roots to hold the soil in place. Wind and rain carry it away. Trees can no longer grow on the bare land. Water rushes down hills. Floods destroy farms and villages.





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