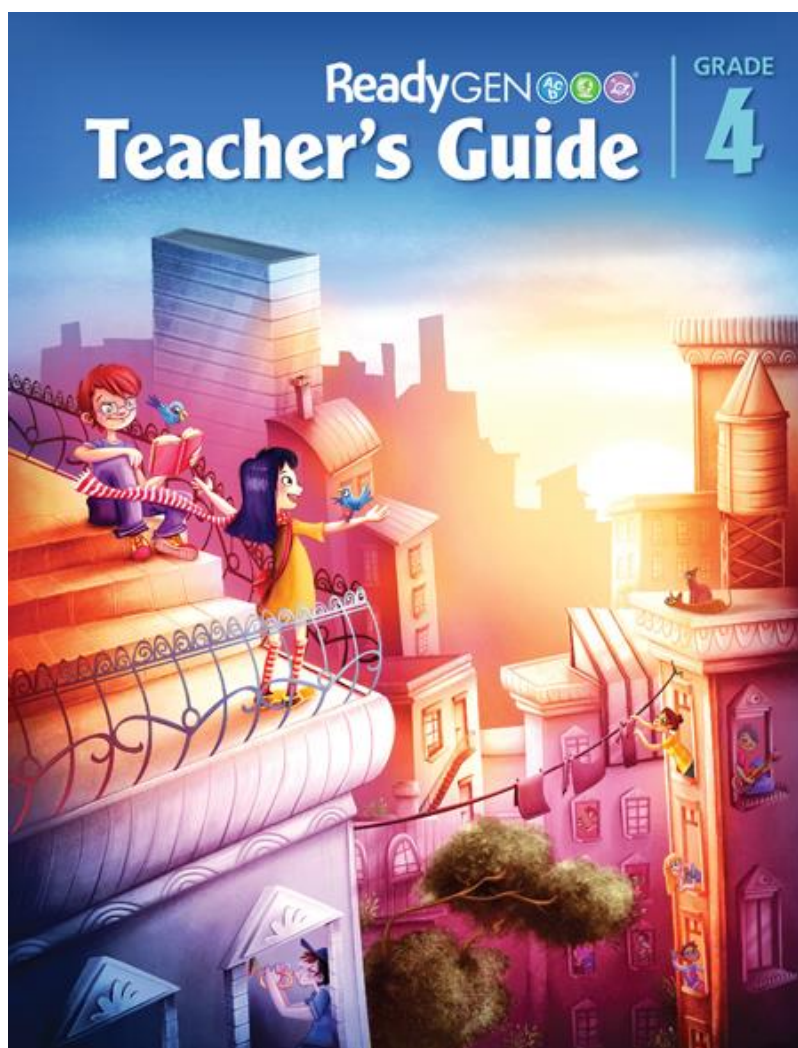


A Correlation of



to the

**Indiana Academic Science Standards
Grade 4**

A Correlation of ReadyGEN, Grade 4 to the Indiana Academic Science Standards

Introduction

This document demonstrates how *ReadyGEN* meets the *Indiana Academic Science Standards*. Correlation page references are to the Unit Module Teacher's Guides and are cited by grade, unit, module, and page references.

ReadyGEN is a K-6 integrated literacy curriculum that equips students and teachers with the tools to meet heightened literacy expectations. Authentic, rigorous text sets actively engage students, and a complete array of print and digital resources provide teachers with the support and flexibility they need.

AUTHENTIC TEXT AT THE CORE OF INSTRUCTION

- Puts a library of 12 authentic trade books in the hands of every child.

BUILT WITH THE RESULTS IN MIND

- Back-mapped for success to ensure that activities are driven by rigorous standards.

BROADENS ACCESSIBILITY TO COMPLEX TEXTS AND TASKS

- Point-of-use scaffolds, strategic support, and individualized intervention accelerates learning for all.

**A Correlation of ReadyGEN, Grade 4 to the
Indiana Academic Science Standards**

Indiana Academic Science Standards	ReadyGEN Grade 4
Physical Science (PS)	
4.PS.1 Investigate transportation systems and devices that operate on or in land, water, air and space and recognize the forces (lift, drag, friction, thrust and gravity) that affect their motion.	Opportunities to address this objective can be found with the following: TG: <u>Unit 2 Interactions in Nature and Culture</u> Module B: Close Read, 273 (Native Americans use of bark and trees for transportation) <u>Unit 4 Creating Innovative Solutions</u> Module B: Create, 394
4.PS.2 Investigate the relationship of the speed of an object to the energy of that object.	Opportunities to address this objective can be found with the following: <u>Unit 3 Exploring Impact and Effect</u> Module A: Lessons 1-6: Anchor Text: <i>Earthquakes</i> Lessons 7-12: Supporting Text: <i>Quake!</i>
4.PS.3 Investigate how multiple simple machines work together to perform everyday tasks.	Opportunities to address this objective can be found with the following: TG: <u>Unit 4 Creating Innovative Solutions</u> Module B: Lessons 14-15, 16, 18: Supporting Text: <i>The Boy Who Invented TV</i> Lesson 17: <i>Robo Cleaner</i> Research Center, 211 Create, 394
4.PS.4 Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.	Opportunities to address this objective can be found with the following: TG: <u>Unit 3 Exploring Impact and Effect</u> Module A: Lessons 1-6: Anchor Text: <i>Earthquakes</i> Lessons 7-12: Supporting Text: <i>Quake!</i>
4.PS.5 Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	Opportunities to address this objective can be found with the following: TG: <u>Unit 3 Exploring Impact and Effect</u> Module A: Lessons 1-6: Anchor Text: <i>Earthquakes</i> Lessons 7-12: Supporting Text: <i>Quake!</i> Lesson 13: <i>Earthquakes and Quake!</i>

**A Correlation of ReadyGEN, Grade 4 to the
Indiana Academic Science Standards**

Indiana Academic Science Standards	ReadyGEN Grade 4
Earth and Space Science (ESS)	
4.ESS.1 Investigate how the moon appears to move through the sky and it changes day to day, emphasizing the importance of how the moon impacts the Earth, the rising and setting times, and solar and lunar eclipses.	<p>Opportunities to address this objective can be found with the following: TG: <u>Unit 2 Interactions in Nature and Culture</u> Module A: By the Way Words, 73</p>
4.ESS.2 Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.	<p>Opportunities to address this objective can be found with the following: TG: <u>Unit 3 Exploring Impact and Effect</u> Module A: Lessons 1-6: Anchor Text: <i>Earthquakes</i></p> <p>Sleuth <i>The Layering Effect, 32–33</i></p>
4.ESS.3 Describe how geological forces change the shape of the land suddenly and over time.	<p>TG: <u>Unit 3 Exploring Impact and Effect</u> Module A: Lessons 1-6: Anchor Text: <i>Earthquakes</i> Lessons 7-12: Supporting Text: <i>Quake!</i> Lesson 13: <i>Earthquakes</i> and <i>Quake!</i> Lesson 14-15: Supporting Text: “Earthshaker’s Bad Day” and “The Monster Beneath the Sea” Lesson 16: Supporting Text: <i>Earthquakes</i>, <i>Earthshaker’s Bad Day</i>, “The Monster Beneath the Sea” Lessons 17-18: <i>Earthquakes, Quake!</i>, <i>Earthshaker’s Bad Day</i>, and “The Monster Beneath the Sea”</p> <p>Module B: Lessons 1-8: Anchor Text: <i>Anatomy of a Volcanic Eruption</i> Lessons 9-10: Supporting Text: <i>Escape from Pompeii</i> Lesson 11: <i>Anatomy of a Volcanic Eruption</i> <i>Escape from Pompeii</i> Lessons 12-15: Supporting Text: <i>A Tsunami Unfolds</i> Lesson 16: <i>Anatomy of a Volcanic Eruption</i> <i>A Tsunami Unfolds</i> Lessons 17-18: <i>Anatomy of a Volcanic Eruption</i> <i>Escape from Pompeii</i> <i>A Tsunami Unfolds</i></p> <p>Sleuth <i>Crater Lake, 28–29</i> <i>The Layering Effect, 32–33</i></p>

**A Correlation of ReadyGEN, Grade 4 to the
Indiana Academic Science Standards**

Indiana Academic Science Standards	ReadyGEN Grade 4
<p>(Continued) 4.ESS.3 Describe how geological forces change the shape of the land suddenly and over time.</p>	<p>(Continued) <u>Leveled Text Library (examples)</u> <i>Tommy and the Tornado</i> <i>Volcanoes</i> <i>Severe Weather: Storms</i> <i>Storm Chasers</i> <i>Storm Chasing Challenges</i></p>
<p>4.ESS.4 Develop solutions that could be implemented to reduce the impact of humans on the natural environment and the natural environment on humans.</p>	<p>TG: <u>Unit 3 Exploring Impact and Effect</u> Module A: Make Your Case, 37 Independent Writing Practice, 80 Module B: Write Paragraphs to Explain, 269</p> <p><u>Leveled Text Library (examples)</u> <i>Danger: The World Is Getting Hot</i> <i>Operation Inspiration</i></p>
Life Science (LS)	
<p>4.LS.1 Observe, analyze, and interpret how offspring are very much, but not exactly, like their parents or one another. Describe how these differences in physical characteristics among individuals in a population may be advantageous for survival and reproduction.</p>	<p>TG: <u>Unit 1 Becoming Researchers</u> Module A: Lessons 14-15: Supporting Text: "Fragile Frogs" from <i>The Frog Scientist</i></p> <p><u>Leveled Text Library (examples)</u> <i>Beetles</i> <i>Whales and Other Amazing Animals</i> <i>Come Learn About Dolphins</i></p>

**A Correlation of ReadyGEN, Grade 4 to the
Indiana Academic Science Standards**

Indiana Academic Science Standards	ReadyGEN Grade 4
<p>4.LS.2 Use evidence to support the explanation that a change in the environment may result in a plant or animal will survive and reproduce, move to a new location, or die.</p>	<p>TG: <u>Unit 1 Becoming Researchers</u> Module A: Lessons 1-8, 13: Anchor Text: <i>Science Squad: Porpoises in Peril</i> Lessons 14-15: Supporting Text: "Fragile Frogs" from <i>The Frog Scientist</i> Lessons 16-18: <i>Science Squad: Porpoises in Peril</i>, and "Fragile Frogs" from <i>The Frog Scientist</i> Module B: Lessons 1-8, 16: Anchor Text: <i>Skeletons Inside and Out</i> Lessons 9-11: Supporting Text: Movers and Shapers Lessons 17-18: <i>Skeletons Inside and Out</i>, King of the Parking Lot, and Movers and Shapers</p> <p><u>Sleuth</u> <i>A "Coat" of Many Colors</i>, 10–11 <i>Adapting to Survive</i>, 14–15</p> <p><u>Leveled Text Library (examples)</u> <i>Migration Relocation</i> <i>Journey to the Undersea Gardens</i> <i>Beetles</i> <i>The Gray Whale</i> <i>Whales and Other Amazing Animals</i> <i>Bills and Beaks</i> <i>Come Learn About Dolphins</i> <i>Birds Take Flight</i></p>
<p>4.LS.3 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction in a different ecosystems.</p>	<p>TG: <u>Unit 1 Becoming Researchers</u> Module B: Lessons 1-8, 16: Anchor Text: <i>Skeletons Inside and Out</i> Lessons 9-11: Supporting Text: Movers and Shapers Lessons 17-18: <i>Skeletons Inside and Out</i>, King of the Parking Lot</p>
<p>Engineering (E)</p>	
<p>3-5.E.1 Identify a simple problem with the design of an object that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost.</p>	<p>Opportunities to address this objective can be found with the following: TG: <u>Unit 4 Creating Innovative Solutions</u> Module B: Lessons 14-15, 16, 18: Supporting Text: <i>The Boy Who Invented TV</i> Lesson 17: <i>Robo Cleaner</i></p>

**A Correlation of ReadyGEN, Grade 4 to the
Indiana Academic Science Standards**

Indiana Academic Science Standards	ReadyGEN Grade 4
<p>3-5.E.2 Construct and compare multiple plausible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>	<p>Sleuth ReadyGen provides opportunities through their four-step process: Look for Clues; Ask Questions; Make Your Case; and Prove It! to conduct investigations and share their responses.</p> <p>See Unit 1 Becoming Researchers: Nosing Around, 8–9; A “Coat” of Many Colors, 10–11; Adapting to survive, 14–15; Unit 3 Exploring Impact and Effect: Crater Lake, 28–29; An Amazing Discovery, 30–31</p>
<p>3-5.E.3 Construct and perform fair investigations in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.</p>	<p>TG: <u>Unit 1 Becoming Researchers</u> Module A: Lessons 1-8: Anchor Text: <i>Science Squad: Porpoises in Peril</i> Lessons 9-12: Supporting Text: <i>Mary Anning: The Girl Who Cracked Open the World</i> Module B: Lessons 1-8: Anchor Text: <i>Skeletons Inside and Out</i> Lessons 9-11: Supporting Text: <i>Movers and Shapers</i></p> <p>Sleuth ReadyGen provides opportunities through their four-step process: Look for Clues; Ask Questions; Make Your Case; and Prove It! to conduct investigations and share their responses.</p> <p>See Unit 1 Becoming Researchers; Unit 2 Interactions in Nature and Culture; Unit 3 Exploring Impact and Effect; Unit 4 Creating Innovative Solutions</p>

Copyright ©2020 Savvas Learning Company LLC