



SCIENCE

Indiana Elementary

Reviewer Guide

Learn More

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Program Overview

Indiana Science for Elementary

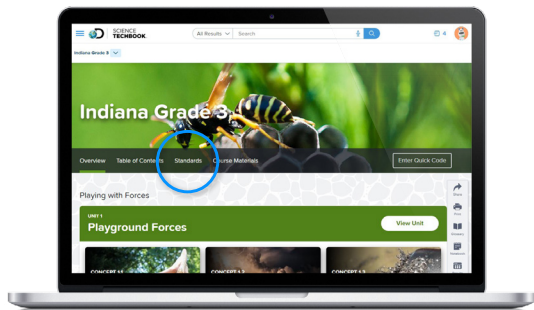
The Discovery Education Indiana Science for Elementary program is a complete, blended solution that is fully aligned to the Indiana Academic Standards for Science, and inspires students to investigate real-world phenomena, as well as build, design, and think deeply about science and engineering practices.

It provides teachers with tools and flexible resources to effectively implement and assess three-dimensional learning, including literacy connections, model lesson plans, ready-to-use strategies, and a global network of educators.

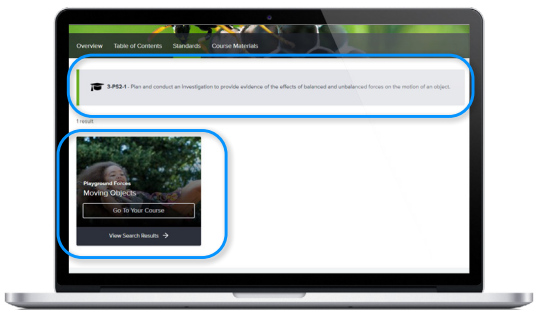
The adaptable, digital *Science Techbook* is delivered through the award-winning DE learning platform, and the corresponding Student and Teacher print editions and Hands-on Activity Kits seamlessly integrate digital, print, and hands-on learning using embedded QR codes.

Fully Aligned to the Indiana Academic Standards for Science

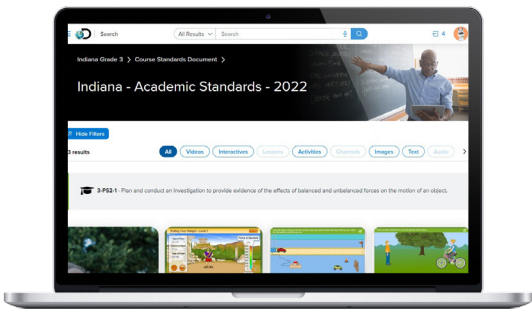
To help teachers address the science standards in their instructional practice, the Discovery Education Indiana Science for Elementary program is fully aligned to the Indiana Academic Standards for Science.



Located under the Standards tab, they are listed in their entirety as active links.



The links take you directly to the section within the program that covers each standard.

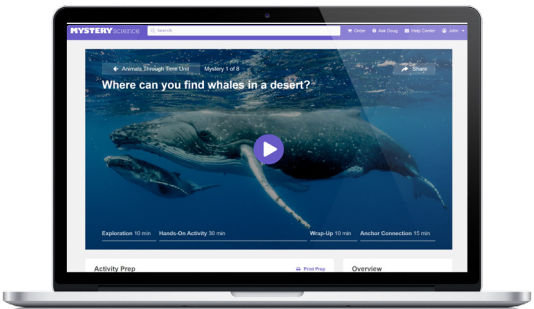


Simply by selecting Go To Your Course or View Search Results, you can go directly to the concept within Science Techbook or utilize a wealth of other resources that cover the applicable standard.

Mystery Science Overview

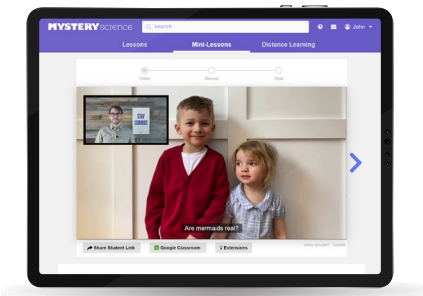
Stay Curious

Inspire and nurture the natural curiosity of K-5 students with video-based, hands-on core and mini lessons, driven by questions from real students!



Make Teaching Science Easy

Open-and-go lessons maximize instructional time with quick 5- and 15-minute mini-lessons that require minimal planning time or content expertise. Dive deeper with core lessons with additional activities, assessments, and a further Anchor Layer.



Make Learning Science Fun & Memorable

Video lessons are driven by questions from real children and their natural curiosity and wonder, telling a story through layers of questions and explanations with real-world phenomena, all of which paint a picture for students that is relatable, age-appropriate, inclusive, and leaves them with a profound new perspective.

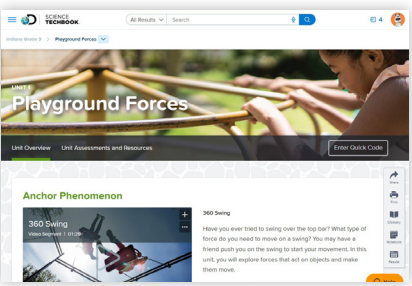
Easier Yet!

Add Mystery Packs to make prepping even easier. These grade-level supply kits provide materials that support the hands-on activities in each unit, organized by lesson.



Science Techbook Overview

Discovery Education *Science Techbook* is a phenomena-driven core curriculum that puts elementary school students at the center of each three-dimensional storyline, leading exhilarating investigations that uncover the mysteries of the universe.



- Relevant unit storylines offer intentional sequencing of activities to help students take ownership of their learning.
- Phenomena-driven, research-backed science curriculum cultivates three-dimensional learning experiences.
- Active investigation of phenomena prompts students to ask questions, build models, and develop explanations to generate evidence of sensemaking.
- Lesson planning, differentiation, progress monitoring, and professional growth opportunities provide teachers with time-saving support.
- Exclusive, original, and highly engaging multimedia content makes science exciting and relevant for all students.

Quick Start Guide

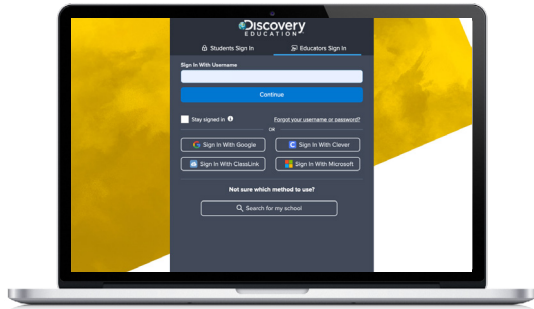
Science Techbook

Discovery Education *Science Techbook* is a world-class digital curriculum solution which offers award-winning teaching and learning resources, collaboration and creation tools, hands-on kits, and on-demand professional learning delivered within a dynamic daily learning platform. This guide will walk you through quick navigation steps to support your preview.

1 Begin Your Journey

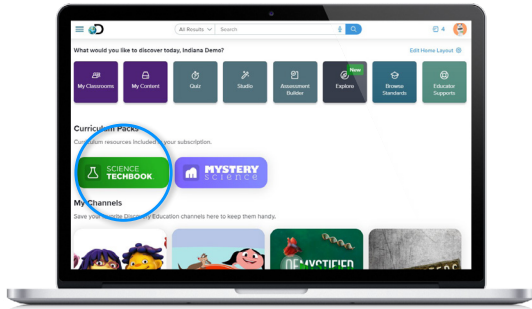
Go to **DiscoveryEducation.com** and select the log-in button at the top of the screen. Use the subscriber login below to access your sample teacher and student account.

Username: DE_INDIANA
Password: discovery



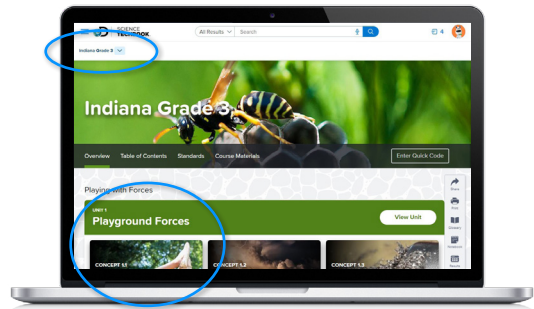
2 Select Science Techbook

Once inside the learning platform, locate the Curriculum Packs section. Click on the *Science Techbook* tile.



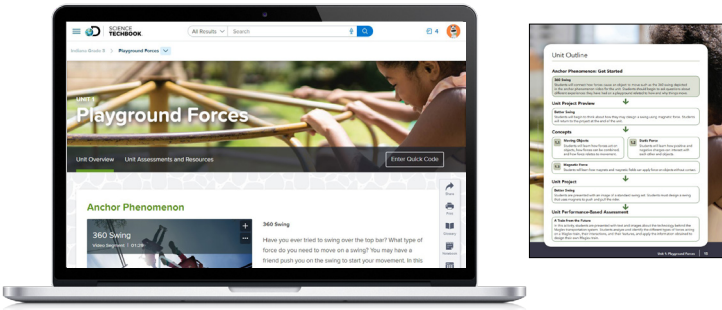
3 Select a Course

Choose your course from the drop-down menu at the top of the screen. Select the Unit you wish to review.



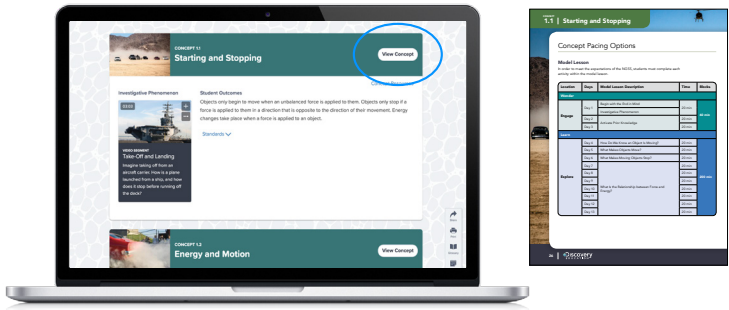
4 Anchor Phenomenon

Each Unit begins with an engaging, real-world Anchor Phenomenon and a preview of the Unit Project. Find the Unit Outline among the Teacher Planning Resources under Unit Assessments and Resources. Performance-Based Assessments (PBAs) are available in English and Spanish.



5 Explore the Concept

Choose a Unit Concept. Click on the Intro tab to preview the “Can You Explain?” question, Student and Teacher Learning Objectives, Key Vocabulary linked to an interactive glossary, and a variety of Teacher Planning Resources.



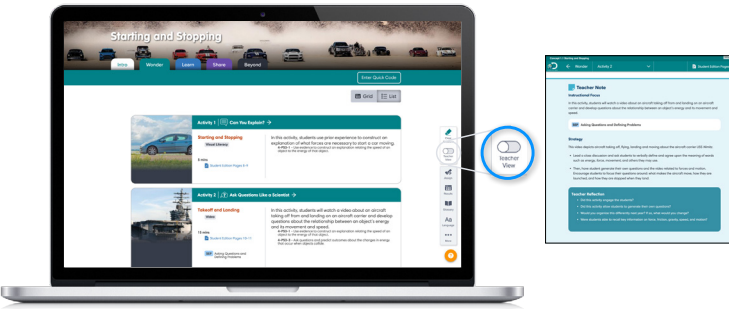
Organized by Activity for Ease of Use

Three-dimensional learning is embedded throughout *Science Techbook*. Each learning opportunity is identified by an activity number. Each activity card provides a description, individual timing, and call-outs for Disciplinary Core Ideas (DCI), Science and Engineering Practices (SEP), and Crosscutting Concepts (CCC).

6 Engage (Wonder) with Investigative Phenomena

Click into a concept and view the **Wonder, Learn, Share** lesson cycle across the top. In the Wonder tab, students are introduced to **Investigative Phenomena** with activities that engage students in three-dimensional learning—observing, questioning, evaluating—like scientists.

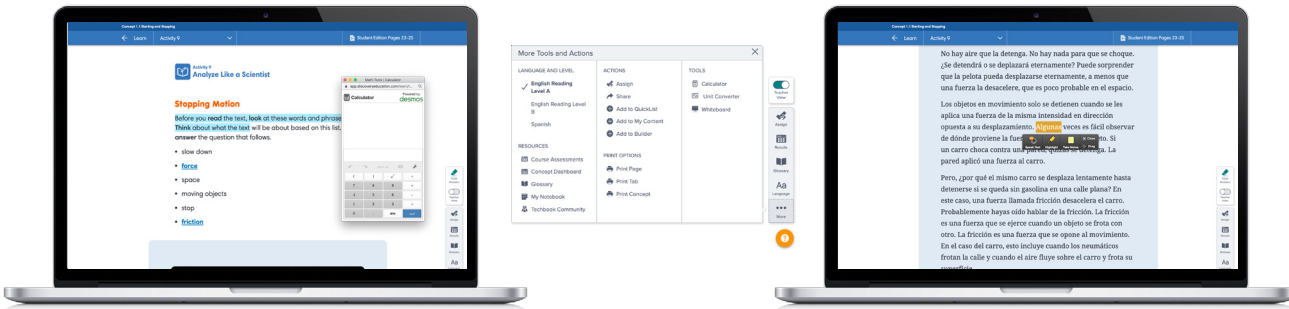
Use the Teacher View toggle switch to access instructional notes and resources at any point throughout each instructional segment. Toggle off to view the content as the student sees it.



7 Explore (Learn) the Concept

The Learn tab offers a variety of activities that inspire three-dimensional learning. Interactive resources and hands-on activities help students test predictions, collect evidence, and record observations and ideas. Students are then encouraged to design solutions to problems and apply what they have learned.

The core interactive text features multiple differentiation options in the right-hand toolbar, including text size, Lexile reading levels, and a toggle to authentically translated Spanish. Other tools include text-to-speech, highlighting capabilities, translation options for 90+ languages, a science glossary, and a digital student notebook.

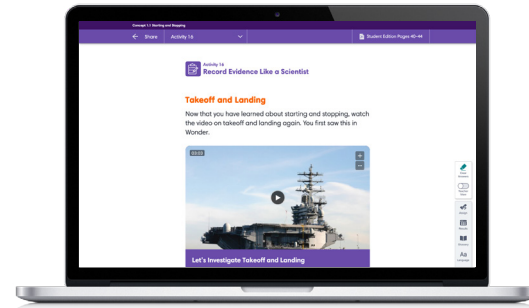


Graphic Calculator by Desmos™

In-Text Speech, Highlighting, and Notetaking

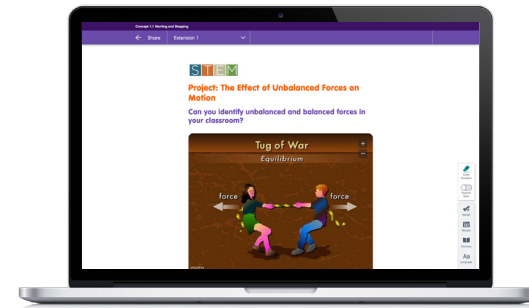
8 Explain (Share) with Evidence

The Share tab lets students communicate the self-constructed scientific explanations they developed through the Learn tab. Students can represent their learning in multiple ways, such as uploading media and ideas through the collaborative Studio tool found in the learning platform, which allows students to express themselves using different modalities.



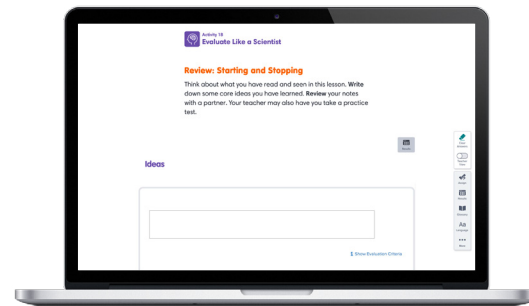
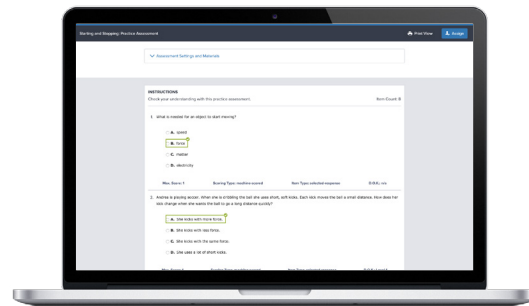
9 Elaborate (Share) with STEM Tab

The Share with STEM tab connects science content to real-world career opportunities and allows for extensions for learning and student collaboration. Each unit also features a specific STEM project that corresponds to the unit anchor phenomenon.



10 Evaluate (Share) Understanding

The Share tab provides a review and multiple options for summative assessment, including brief and extended constructed response items and multiple choice questions. Available in English and Spanish.



11 Go Beyond the Learning Experience

Click the Beyond tab to access additional curated instructional content connected directly to the unit concepts.

Real-World Exploration with Hands-On Science Kits

Ready-to-Teach Kits

Students will investigate the marvels of science with each Hands-On Science Kit from Discovery Education. Kits are organized by concept and built to directly support the labs and activities embedded in every unit of in every unit of *Science Techbook*. Create action-packed lessons that help young scientists build mastery of scientific reasoning, logic, and the nature of science.

- Aligned to the Latest Indiana SOLs and Engineering Practices
- Includes HOA Walkthrough Videos and Teacher Support Documents
- Organized and Identifiable by Unit and Concept
- Refill kits available

Hands-On Science Kit Components

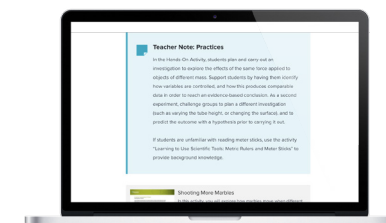
Discovery Education **Hands-On Kits** are supported by a number of instructional supports. Hands-On Activity (HOA) videos accompany many labs to model best practices for students and teachers. Every HOA includes instructions and support for teachers.



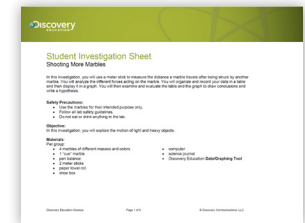
HOA Walkthrough Videos



Activities Organized by Unit and Concept



Teacher Guide and Notes



Student Investigation

Print Editions

Print editions are available for teachers and students and provide a flexible option for blended instruction. Print and digital versions can be used interchangeably to support instruction in any environment.



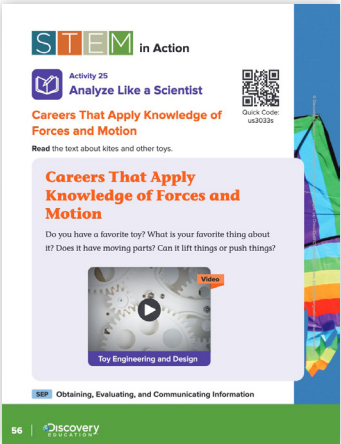
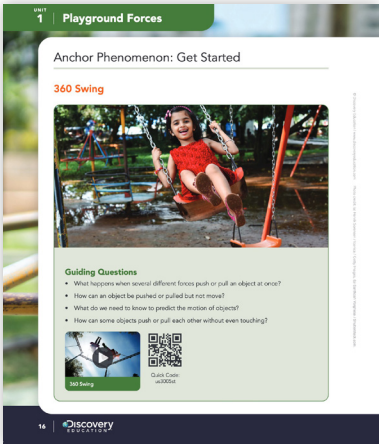
Student Print Editions

The Indiana Student Print Editions offer students an additional blended learning opportunity to master the course content. Mirroring the *Science Techbook* content in scope and sequence, they provide a perfect option for offline learning opportunities.

Students will engage in an action-packed journey to make sense of phenomena in a way that aligns with their natural curiosities. Our units are organized around the storyline learning model, launching with real-world anchor phenomena to hook students and inspire them to ask important questions as they investigate and collaborate to explain, make predictions, and solve problems.

Unit Storylines Provide a 3D Learning Framework

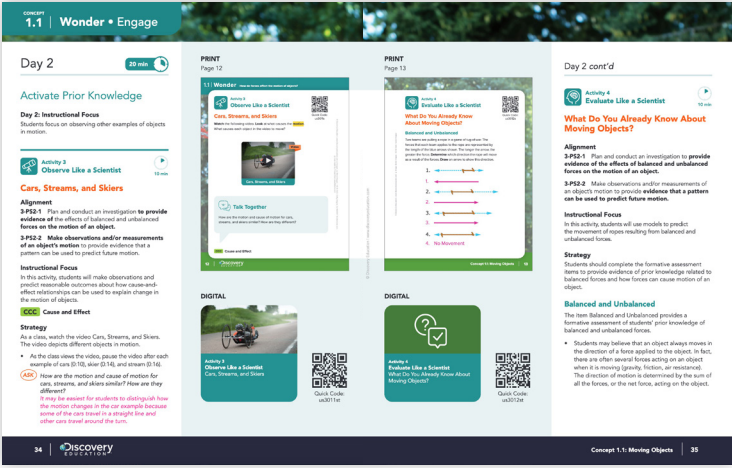
- Launch concepts with real-world investigative phenomena and related “Can You Explain?” questions directly tied to the Anchor Phenomenon for each unit.
- Encourage student questioning to drive the learning pathway.
- Provide multiple pathways for students to demonstrate their sensemaking through the development of models and scientific explanations in the claim, evidence, reasoning format.
- Explore STEM career connections.
- Guide students to solve problems related to the anchor phenomena through a culminating Unit Project.



Teacher Print Editions

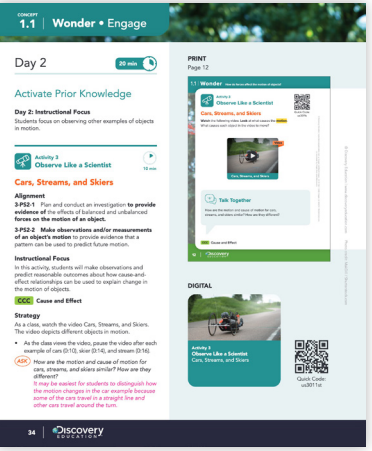
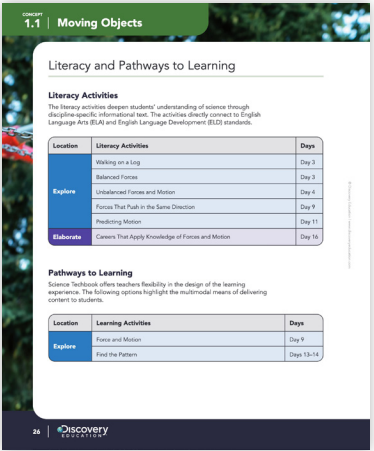
The customized Indiana Teacher Print Editions offer flexible instructional tools that allow teachers to ensure all students master three-dimensional learning goals.

Clear correlations to the Indiana Academic Standards for Science ensure that teachers can cover the required grade level content with the minimal amount of planning time.



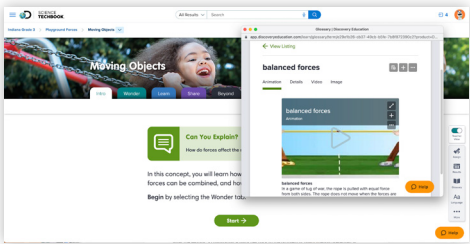
Additional time-saving planning features include:

- **Days of Instruction:** Instruction is presented in 20-minute segments by day. The standards for the day are also featured, with the specific aspects of each standard covered that day in bold.
- **Activities:** Within each day, strategies for a variety of activities guide teachers through possible means of classroom implementation.
- **Teacher Reflection:** Throughout each concept, questions encourage teachers to consider how activities are working in their classrooms and how well students are accessing the material.
- **Quick Digital Access:** Throughout the print Student and Teacher Editions, QR codes and short links give opportunities to go digital to deepen learning. through rich media or assessment opportunities.
- **ELD Support:** The Teacher Edition includes scaffolded English Language Development (ELD) strategies at point-of-use within a concept.
- **Pathways to Learning:** This feature explains how teachers can deliver instruction in flexible ways, depending on classroom resources and student preference.
- **Literacy Activities:** Each concept features robust literacy activities and teacher support to meet the needs of diverse learners.



Literacy Strategies and Support

With Discovery Education’s Science Techbook, students not only build their content knowledge, but they also develop and strengthen their literacy skills, including their disciplinary literacy skills, through robust resources and literacy-supported lessons that use research-based instructional reading, writing, speaking, and listening strategies.

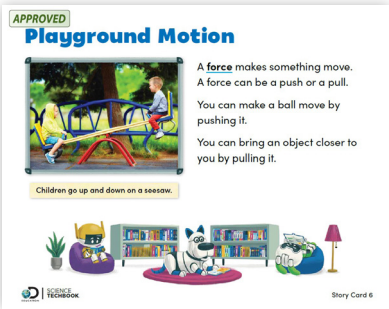


Science Techbook's Key Literacy Features

- A **read aloud** text feature that allows students to hear text orally
- **Notetaking** and **highlighting** features to support the comprehension of informational texts
- **Video** and **multimedia** that support, complement, and enrich textual understanding, serving as a background knowledge builder
- An **interactive glossary** to foster the acquisition of academic language and domain-specific vocabulary
- **Search features** to locate texts at different Lexile or reading levels

K-2 Story Cards

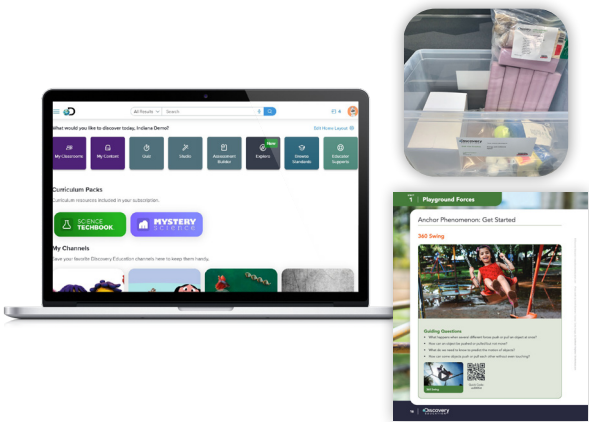
Each Story Card unit presents a cohesive storyline. The Discovery Education characters serve as narrators for the storyline and introduce students to a problem to solve or a phenomenon to learn about with both reading passages and activity cards. The wide range of activities to choose from, including Songs, Word Fills, Picture Searches, Story Starters, Modified Charades, and Spin and Speaks, keeps your students engaged.



Teacher Talking Points on the back side of each card give step-by-step instructions on how to present the reading passage or conduct the activity.

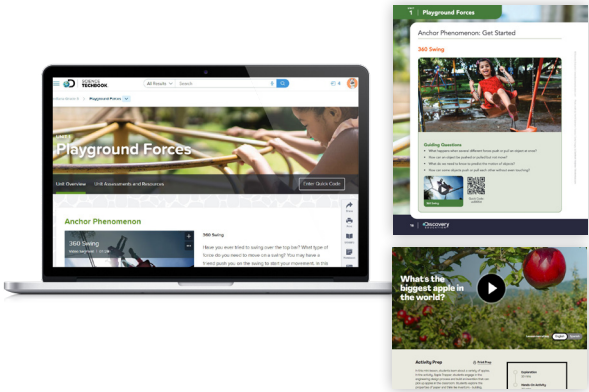
After the lessons, a culminating activity ties back to the problem or phenomenon presented at the beginning of the story. Students draw or write to show what they have learned. This activity may be conducted as a shared or interactive experience.

Purchase Options



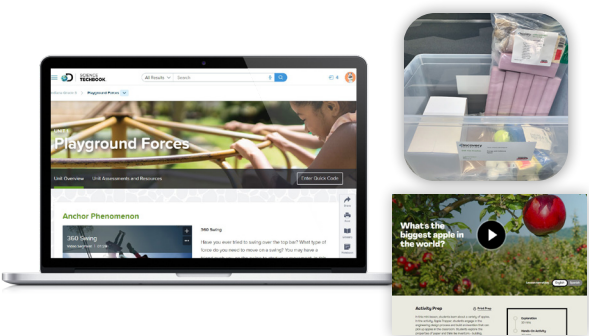
Option 1: Digital, Print, Kit

This complete, blended solution that is fully aligned to the Indiana Academic Standards for Science. It combines the best-in-class, adaptable digital *Science Techbook*, delivered through the award-winning DE platform, Student and Teacher Print Editions, and complete Hands-on Activity Kits, seamlessly integrating digital, print, and hands-on learning through embedded QR codes. The Mystery Science video-based, hands-on core and mini-lessons, driven by questions from real students, make science easy to teach, fun to learn, and memorable for all.



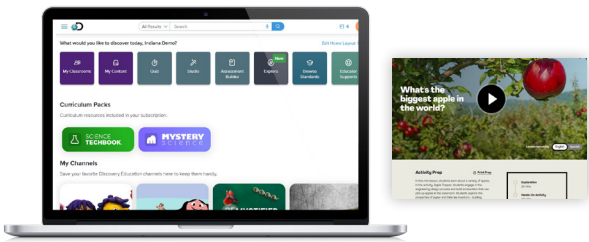
Option 2: Digital, Print

This blended solution that is fully aligned to the Indiana Academic Standards for Science. It combines the best-in-class, adaptable digital *Science Techbook*, delivered through the award-winning DE platform, and Student and Teacher Print Editions, seamlessly integrating digital and print through embedded QR codes. The Mystery Science video-based, hands-on core and mini-lessons, driven by questions from real students, make science easy to teach, fun to learn, and memorable for all.



Option 3: Digital, Kit

This package is a blended solution that is fully aligned to the Indiana Academic Standards for Science. It combines the best-in-class, adaptable digital *Science Techbook*, delivered through the award-winning DE platform, and complete Hands-on Activity Kits organized by concept, directly supporting the labs and activities in *Science Techbook*. The Mystery Science video-based, hands-on core and mini-lessons, driven by questions from real students, make science easy to teach, fun to learn, and memorable for all.



Option 4: Digital

This package is a digital-only solution that is fully aligned to the Indiana Academic Standards for Science. It includes the best-in-class, adaptable digital *Science Techbook*, delivered through the award-winning DE platform. The Mystery Science video-based, hands-on core and mini-lessons, driven by questions from real students, make science easy to teach, fun to learn, and memorable for all.

Professional Learning Options

Discovery Education *Professional Learning* complements the Indiana *Science Techbook* adoption, providing foundational support as districts transition or expand their implementation of DE’s digital resources.

Participants engage in unique learning experiences designed to build teacher efficacy and confidence in using digital resources to enhance science instruction. Immersive experiences bring learning to life and model the tenets of *Techbook* in action: inquiry, multimodal resources, and high-yield instructional strategies.

Each Indiana district using *Science Techbook* will receive a specific number of professional learning days as part of the adoption, which can be delivered as needed throughout the duration of the adoption cycle.

Below are the metrics used to determine the appropriate levels of professional learning that are **included free of charge**.

Total # of Student Licenses Purchased	Level of Professional Learning
0 to 99 student licenses	Continuous asynchronous online support
100 to 249 student licenses	2 hours of virtual PL + continuous asynchronous online support
250 to 499 student licenses	4 hours of virtual PL + continuous asynchronous online support
For every 500 student licenses	2 on-site day of PL + continuous asynchronous online support

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