



SCIENCE  
**TECHBOOK**



# California Science Techbook

Grades K-5

Available in Spanish and English



SCIENCE  
**TECHBOOK**  
EN ESPAÑOL





**Discovery**  
EDUCATION | **SCIENCE  
TECHBOOK**

This comprehensive science curriculum will change the way your students experience science with a powerful blend of dynamic digital, interactive print and immersive experiences.

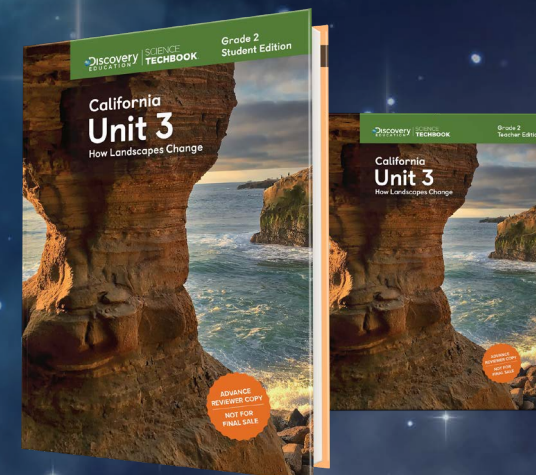
**Included with your premium package**

**Discovery**  
EDUCATION | **STREAMING  
PLUS**

A vetted bank of over 180,000 curated cross-curricular resources

**Discovery**  
EDUCATION | **STEM  
CONNECT**

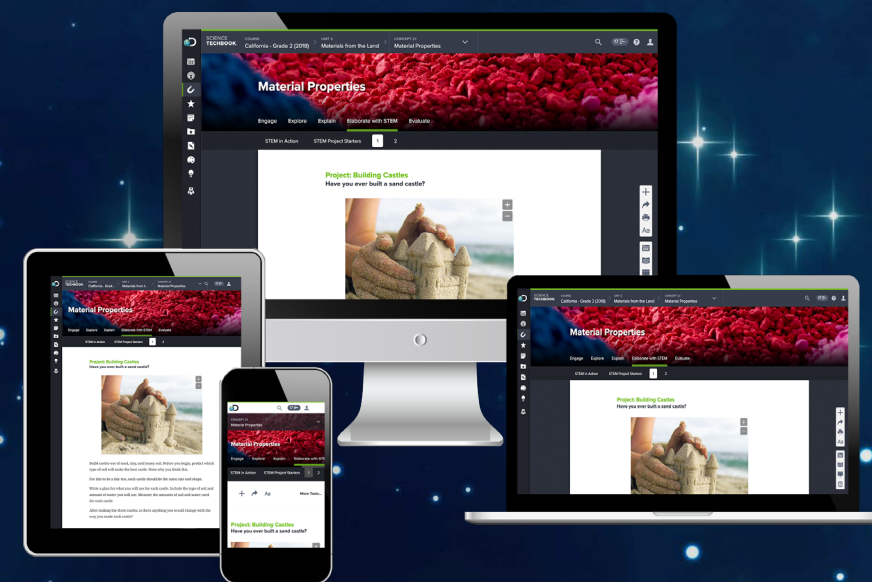
An interdisciplinary K-8 STEM resource designed to enhance core curriculum



Grades K-5 Student and Teacher Print Editions



Hands-On Kits



Grades K-5 Student and Teacher Digital Editions





Authentic Spanish



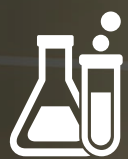
Digital



Print



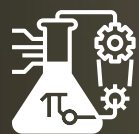
CA NGSS



Hands-On Kits



CAST Aligned Assessments



STEM



Teacher Support



Inclusive



3-Dimensional Learning

## Inspire students to investigate the marvels of science

Ignite natural curiosity with **exciting content** that leverages what students love to explore the innerworkings of the world around us.

Activate their inner explorer with **immersive hands-on activities** and **rich interactive resources** that will get them thinking and acting like scientists.

Strengthen science and engineering practices as they develop solutions to **real world challenges**.

**Build important skills that will allow students to navigate the planet more successfully.**





## Unlock the Power of Discovery

Discovery Education brings a variety of highly engaging educational content from partners like **MythBusters, NBA, Lockheed Martin, Shark Week, MLB and Street Science** into our K-12 services. This ever-growing collection offers resources that **mirror the unique interests of students**, helping them make relevant and lasting connections between science and their everyday lives.

### No permission slips required

Take your students beyond the classroom walls and into some of the world's most iconic locations with our vast collection of Virtual Field Trips.

### Live From The Tundra

Students can experience the annual polar bear migration through an virtual exploration, live from the Arctic.

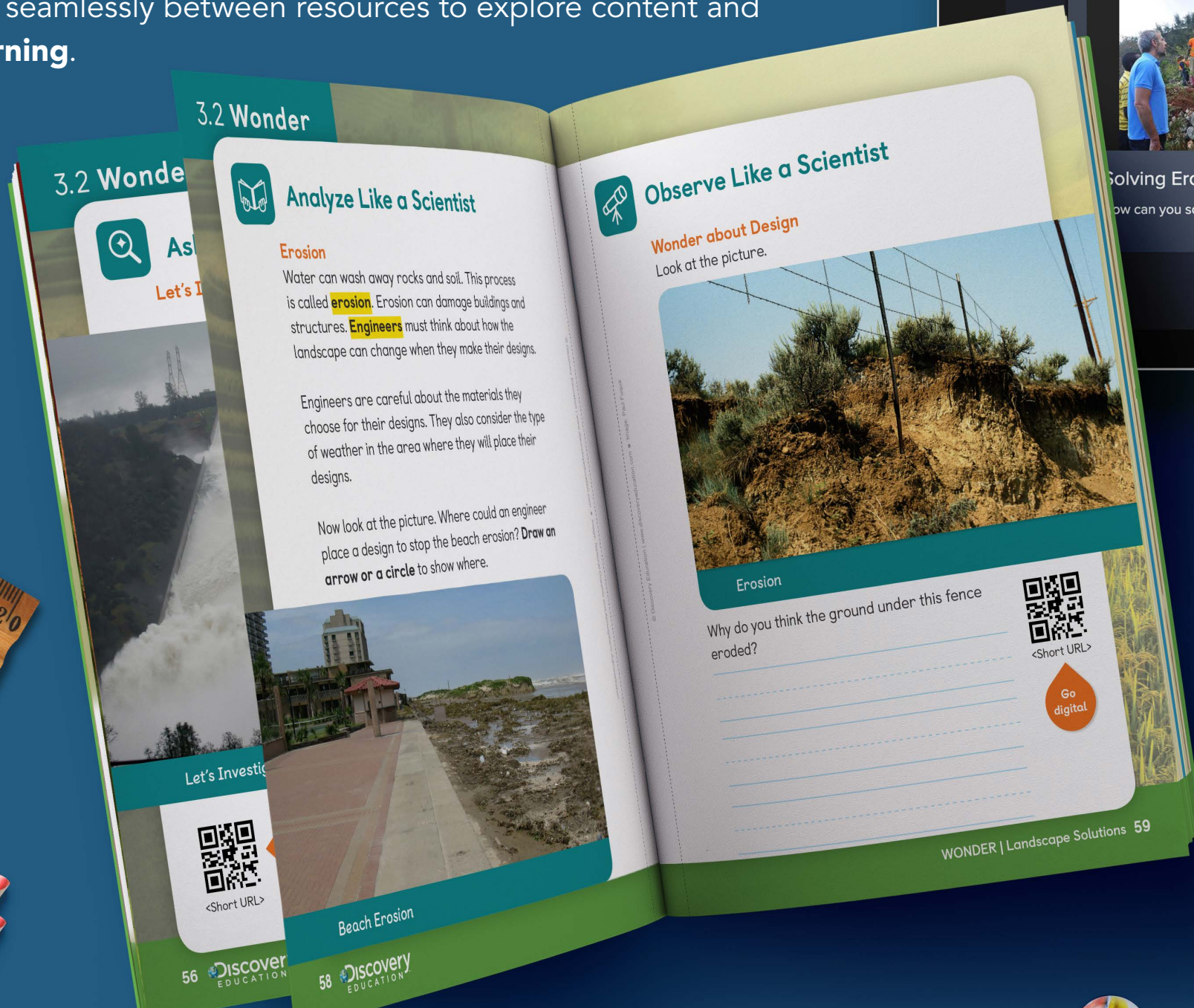
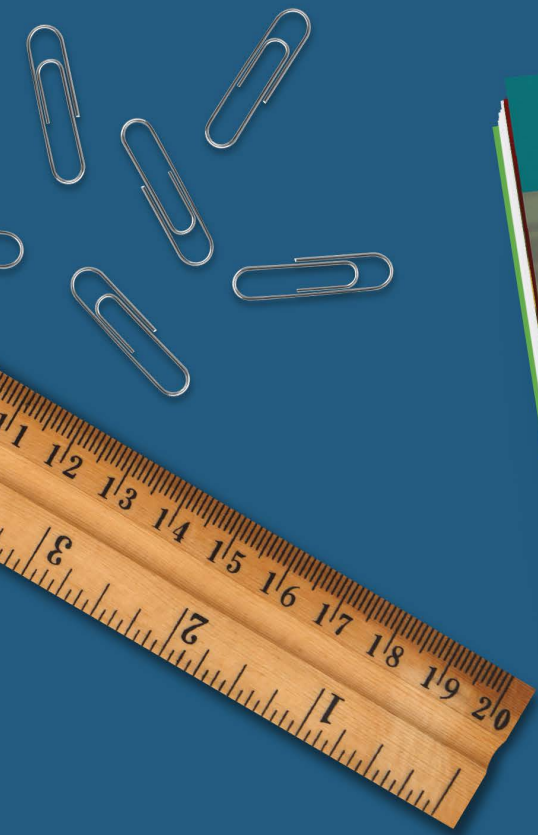
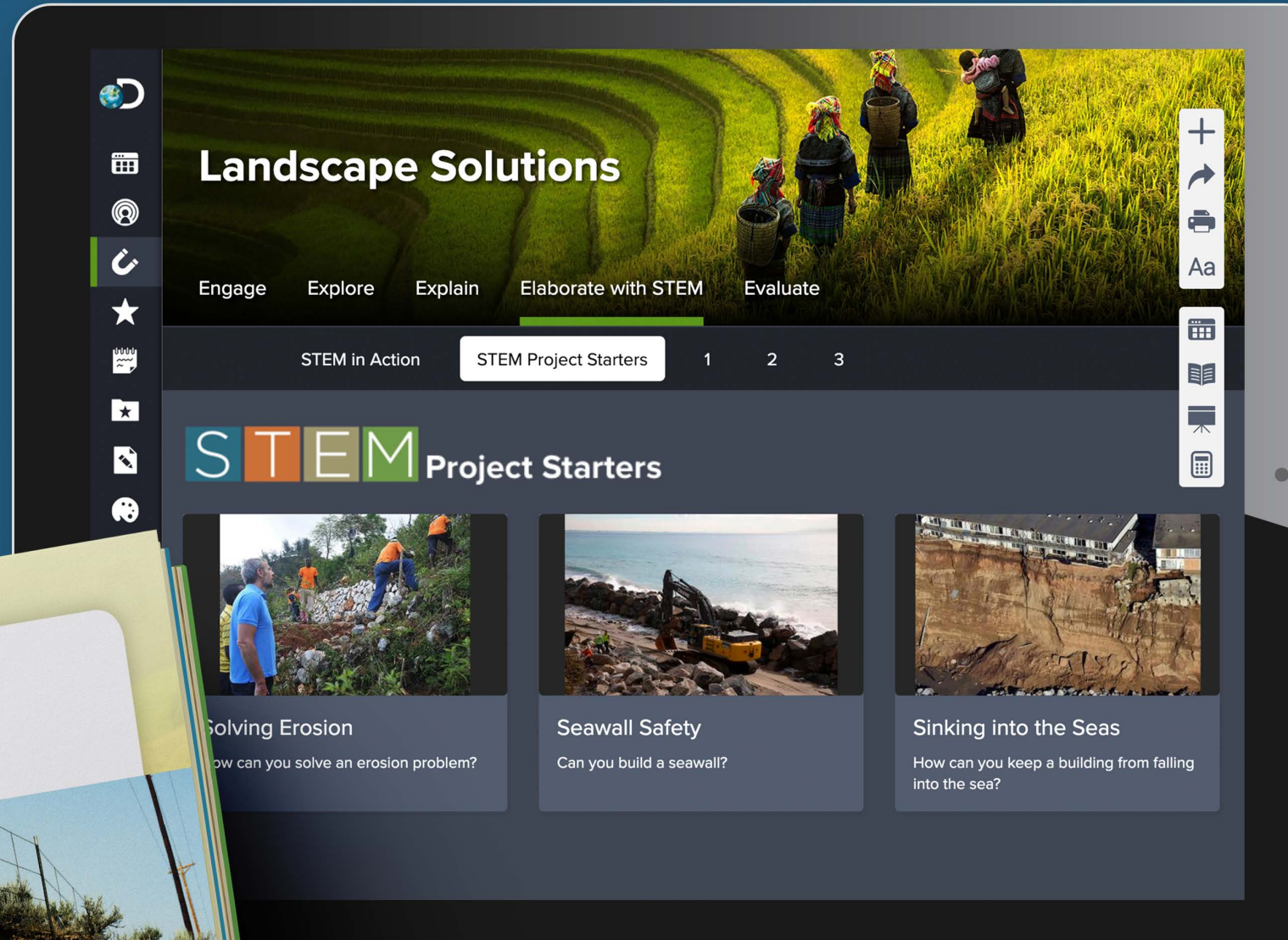
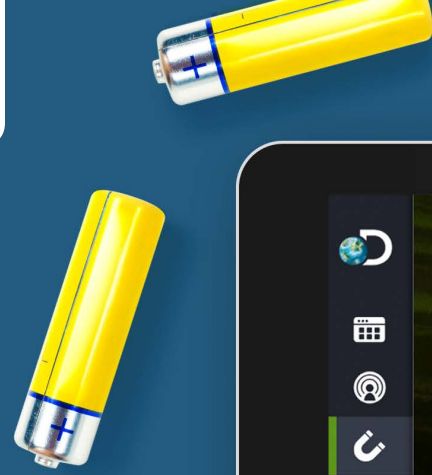




# It's more than what you learn, it's how you learn it.

Meet the needs of every learner and change the way they experience science with a powerful blend of **dynamic digital, interactive print** and **hands-on kits**.

**Built for California**, this curriculum is **designed to work in unison**, so students can move seamlessly between resources to explore content and experience **3D learning**.



## Built For Every California Classroom Grades K-5

Print, Digital and Hands-On Kits

Available in Spanish and English





# Grades K-5

Units are written to the California NGSS instructional segments.

## California Grade K

### UNIT 1

#### Plant and Animal Needs

- 1.1 Animal Needs
- 1.2 Plant Needs

### UNIT 2

#### Living Things and the Environment

- 2.1 Living Things Affect the Environment
- 2.2 Using Natural Resources
- 2.3 Helping the Environment

### UNIT 3

#### Weather and Shelter

- 3.1 Weather Patterns
- 3.2 Sunshine and Shade

### UNIT 4

#### Motion and Change

- 4.1 Push and Pull
- 4.2 Controlling Motion

## California Grade 4

### UNIT 1

#### Car Crashes

- 1.1 Starting and Stopping
- 1.2 Energy and Motion
- 1.3 Speed
- 1.4 Energy and Collisions

### UNIT 2

#### Energy Resources

- 2.1 Devices and Energy
- 2.2 About Fuels
- 2.3 Renewable Energy Resources
- 2.4 Energy and the Environment

### UNIT 3

#### Earth's Changing Surface

- 3.1 Breaking Down and Moving Rocks

## California Grade 1

### UNIT 1

#### Plant Shapes

- 1.1 Plants for a Purpose
- 1.2 Growing Plants
- 1.3 Designing for Plants

### UNIT 2

#### Animal Sounds

- 2.1 Response to Sound
- 2.2 Animal Noises

### UNIT 3

#### Shadows, Light, Motion in the Sky

- 3.1 Light Sources
- 3.2 Light in Action
- 3.3 Sunlight
- 3.4 Moon on the Move

- 3.2 Changing Landscapes

- 3.3 Mapping Landforms

- 3.4 Volcanoes

### UNIT 4

#### Earthquakes

- 4.1 Earthquake Causes and Impacts
- 4.2 Earthquake Waves
- 4.3 Reducing Earthquake Impacts

### UNIT 5

#### Senses and Survival

- 5.1 Adaptation and Survival
- 5.2 Senses at Work
- 5.3 Light and Sight
- 5.4 Communication and Information Transfer

## California Grade 2

### UNIT 1

#### Landscape Shapes

- 1.1 Local Landscapes
- 1.2 Mapping Landscapes
- 1.3 Land and Water Relationships

### UNIT 2

#### Materials from the Land

- 2.1 Material Properties
- 2.2 Changing Materials
- 2.3 Materials in Design

### UNIT 3

#### How Landscapes Change

- 3.1 The Changing Landscape
- 3.2 Landscape Solutions

### UNIT 4

#### Biodiversity in Habitats

- 4.1 Living Landscapes
- 4.2 Plant and Animal Relationships

## California Grade 5

### UNIT 1

#### What Is Matter Made Of?

- 1.1 Describing Matter in Words and Numbers
- 1.2 Changes to Matter
- 1.3 A Model of Matter
- 1.4 Energy and Collisions

### UNIT 2

#### From Matter to Organisms

- 2.1 Plant Needs
- 2.2 Matter Flow in Ecosystems
- 2.3 Energy Flow in Ecosystems

## California Grade 3

### UNIT 1

#### Playground Forces

- 1.1 Moving Objects
- 1.2 Static Force
- 1.3 Magnetic Force

### UNIT 2

#### Life Cycles for Survival

- 2.1 Life Cycles
- 2.2 Inherited Traits
- 2.3 Working in Groups

### UNIT 3

#### Surviving in Changing Environments

- 3.1 Understanding Fossils
- 3.2 Interactions in the Environment
- 3.3 Environmental Changes

### UNIT 4

#### Weather Impacts

- 4.1 Regional Climates
- 4.2 Predicting Weather
- 4.3 Weather Hazards

### UNIT 3

#### Interacting Earth Systems

- 3.1 Hydrosphere and Biosphere Interactions
- 3.2 Water as a Valuable Natural Resource
- 3.3 Protecting Earth's Resources

### UNIT 4

#### Patterns in the Night Sky

- 4.1 Effects of Gravity
- 4.2 Patterns of Motion in the Sky
- 4.3 Sun and Star Brightness



## Supporting educators every step of the way... all at their convenience and comfort level.



### Professional Learning Center

The PLC offers a **variety of rich resources** to ensure you are getting the most from your Discovery Education services available on-demand 24/7.

- Step-by-step guides
- Interactive courses
- Easy-to-use strategies



### DEN Community

The DEN Community offers one of the most **thriving professional learning networks** in the world.

- Shared ideas and resources on-demand
- Professional learning experiences
- A network of educators, ready to collaborate



### Point-of-Use Instructional Support

Access resources and **support right when you need it.**

- Model lessons and planning resources
- Embedded teacher notes
- Remediation and acceleration strategies
- Hands-on activities



## Explore The World In 3 Dimensions

Each unit in Science Techbook aligns to instructional segments and storylines in the California NGSS framework.

- Units are launched with **anchor phenomena** to inspire students to ask questions and make connections.
- Concepts are launched with **investigative phenomena** to allow students to dig deeper and apply what they know.
- Students are better prepared for success with **performance-based assessments** directly mirror the **CAST**.
- Embedded **digital and printed teacher editions** support CA NGSS integration.

### Instructional Model

Discovery Education Science Techbook uses the Wonder-Learn-Share teaching sequence, a simplified version of the 5E Instructional Model, to guide instruction and help students experience 3D learning.







## Access and Equity for all Students

California Science Techbook has been built to support the unique needs of every learner so they can actively experience the magic of science.

- Engage all learners with **interactive resources** and **multimedia, Spanish/English options, adjustable reading levels and read aloud tools**.
- Offer support for **emerging, expanding and bridging** with point-of-use EL tools, including **speak-to-text**, constructed around the ELD standards.
- Accelerate or remediate instruction with **embedded differentiation tools** and a **real-time data dashboard**.

### Differentiation At Your Fingertips

Included with your premium package, you have access to a vetted bank of over 180,000 curated cross-curricular resources with Streaming Plus.



# Real World STEM In Action



Certified by the Global STEM Alliance, this resource collection builds context and drives understanding of science

concepts, providing students with opportunities to produce creative solutions to real-world problems and make relevant career connections.



1. Challenge



2. Design



3. Solve



4C STEM Skills



Across Subjects & Grades



Real World Challenges



Hands-On Activities



Literacy Infused



Global STEM Solution Seekers



Career Connections



Local Connections

Discovery EDUCATION | STEM CONNECT

Your premium package includes full access to Discovery Education STEM Connect, an interdisciplinary K-8 resource that enhances core curriculum. Through the Stanford Design Thinking process, students will develop and apply knowledge and skills to important real-world challenges.





# It's an amazing world. Explore it.

Begin your journey. Simply log into Discovery Education to review the content and functionality of California Science Techbook.

## Log into [DiscoveryEducation.com](https://www.discoveryeducation.com)

### Teacher View

Username: CASciTeacher  
Password: discovery

### Student View

Username: CASciStudent  
Password: discovery