

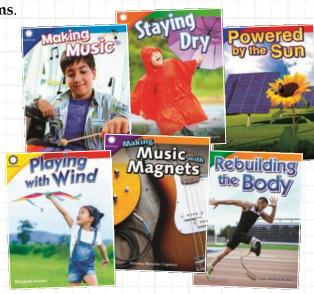
STEAM Readers

Science • Technology • Engineering • Arts • Mathematics

Created in collaboration with the Smithsonian Institution, this dynamic series engages students with high-interest readers that highlight all aspects of STEAM: science, technology, engineering, the arts, and mathematics. Through hands-on STEAM activities, students will learn how the engineering design process is used to solve real-world problems.

The series:

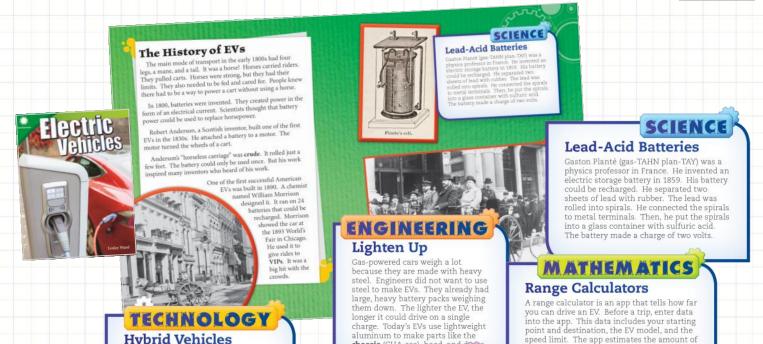
- Strengthen literacy skills and content-area knowledge with high-interest readers and easy-to-implement lessons
- Apply the engineering design process to solve real-world problems
- Engage in **student-centered activities** that support makerspaces and project- or problem-based learning objectives
- **Promote the 4 Cs**: communication, collaboration, critical thinking, and creativity
- Make **career connections** with career advice from Smithsonian employees working in STEAM fields
- Support English language learners and model fluency with professional audio recordings
- Most titles are available as **Digital Books** (PDF and MP3 audio files)



Teacher Created Materials

SCAN to watch An Introduction Video https://youtu.be/4rjb1rDNRBs





Hybrid vehicles are powered by both

gasoline and electricity. A hybrid's main engine is powered by gas. It is used for higher speeds. A hybrid also has an electric motor attached to the engine. It is used for lower speeds. When the car needs extra power to go up hills, it uses both engines. Hybrids use less fuel than regular cars. They produce fewer emissions, too.

EV Artists

Elon Musk, manufacturer of the Tesla EV, once posted a sketch of a unicorn online. He drew it on the touchpad of his EV. All Tesla touchpads have this hidden feature. Tap the Ton the Tesla logo three times and the screen turns into a sketchpad. When you finish, the car asks, "Are you sure you want Tesla to critique your artistic masterniece?" Tesla to critique your artistic masterpiece? Then, you can publish your work.

chassis (CHA-see), hood, and di

Integrating STEAM and Literacy Instruction

energy that will be used on the trip. It then gives you the best route for the least amount

of energy used.

Each reader highlights components of STEAM—science, technology, engineering, the arts, and mathematics.



A Den for Bei Bei



Folding Paper RRI: 1



Lighting the Night A



Making Shade RRI: 1



Garden Life



What Toys Can Do 4



Finding the Right Container A RRL: 4





Playing with Wind A RRL: 5



Being a Beaver Lodge ^



Learning about Sharks ^



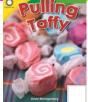
Taking Food To Go RRL: 6



Making More Doughnuts A RRL: 7-8



Making Crayons ^ RRL: 9-10



Pulling Taffy ^ RRL: 9-10



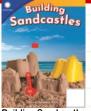
Cooling Off ^



Staying Warm RRL: 15-16



Being Like Butterflies RRL: 17



Building Sandcastles ^



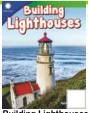
Making Music RRL: 18



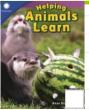
Making Water Safe



Seeing More Stars RRL: 18

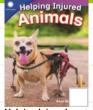


Building Lighthouses RRL: 19-20

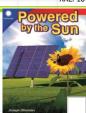


Helping Animals Learn RRL: 19-20

S1



Helping Injured
Animals A RRL: 19-20



Powered by the Sun RRL: 19-20



Solving Problems at the RRL: 19-20



Studying Snowflakes RRL: 19-20



The Art of Shadow Puppets A RRL: RRL: 19-20



Raising Silkworms A RRL: 22



Creating a Habitat ^



Creative Machines RRI: 23



Living in Sunlight Extremes RRI: 23

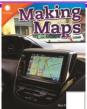


Piecing Art Together A



Staying Dry RRL: 23





Making Maps ^ RRL: 24



Safe Cycling ^ RRL: 24



Bones on Display A RRL: 25



Dealing with Wildfires ^



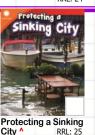
Growing Plants in Space RRL: 25



Hatching a Chick RRL: 25



Mimicking Nature RRL: 25



The Science Gems The Science of Gems ^

RRL: 25

S2 Amphibian Amphibian Rescue

lue Crab **Blue Crab Comeback**

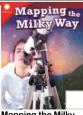




Designing Butterfly
Exhibits A RRL: 26



Helping People See



Mapping the Milky
Wav A RRL: 26 Way ^



Organic Farming ^ RRL: 26



Predicting Earthquakes ^



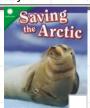
Raising Clouded RRL: 26



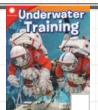
Restoring Muddy Creek ^ RRL: 26



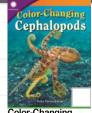
Saving Culture from Disaster A RRL: 26



Saving the Arctic A RRL: 26



Underwater Training A RRL: 26



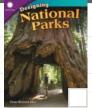
Color-Changing Cephalopods ^ RRL: 27



Conserving an Aircraft ^ RRL: 27



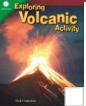
Designing a Shuttle RRL: 27



Designing National Parks A RRL: 27



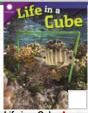
Digging Up Dinosaurs RRL: 27



Exploring Volcanic Activity Activity



From Grass to Bridge *



Life in a Cube RRL: 27



Living and Working in



Making a Mummy ^ RRL: 27



Making an Ocean Ecosystem ^ RRL: 27



Making Movies in Technicolor ^ RRL: 27



Making Music with Magnets A RRL



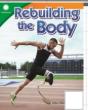
Navigating at Sea '



Plant Invaders ^ RRL: 27



Powered by STEAM A RRL: 27



Rebuilding the Body RRL: 27



Saving a Species RRL: 27



Saving Migratory Birds A RRL: 27



Selling More Snacks RRL: 27



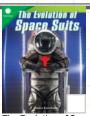
Taking Photos from Space



The Art and Science of Skateboarding ^ RRL: 27



The Culture of RRI : 27 Calendars



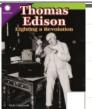
The Evolution of Space Suits ^



The Science of Waves and Surfboards ^ RRL: 27



The Wright Brothers RRL: 27

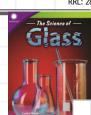


Thomas Edison: Lighting a Revolution ^ RRL: 27

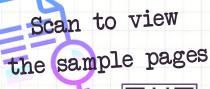




Electric Vehicles ^ RRL: 28



The Science of Glass





https://bit.ly/3LxZZi5



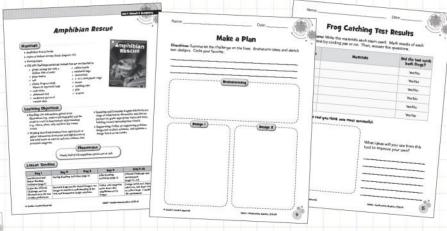
Inka Terraces RRL: 28

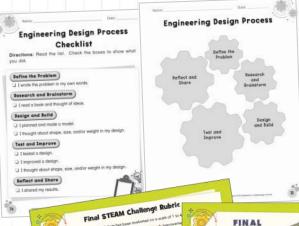




Lessons Plans

Strengthen content-area literacy skills with research- and standards-based reading, writing, and STEAM lessons for every title.



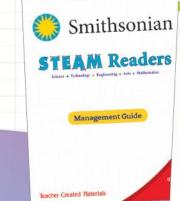


Hands-on Activities

Through hands-on STEAM activities, students engage in the engineering design process to design, test, and improve solutions.

Management Guide

Integrate STEAM education into literacy instruction.





Exclusive Distributor:



STEAM

