

## **STEAM KITS (Science, Technology, Engineering, Art and Math)**

**Kits for preschoolers through Grade 3 are listed first, Kits for grades 4 & up are listed second. All kits check out for 3 weeks**

**Search STEAM in the library catalog to find the titles and place holds on the titles you want**

### **STEAM All About Dinosaurs Kit**

Recommended for PreK through Grade 3

Learn more about dinosaurs with this interactive kit

Includes Dinosaur Escape Game

Reusable vinyl Dinosaur stickers and two mats

Jumbo plastic dinosaurs and babies with an activity guide

Book "What If You Had Dinosaur Teeth!?"

### **STEAM Building Challenge IPTV Gray backpack**

Recommended for ages 4 & up

Explore Building concepts with KEVA planks and books and a DVD with a building theme

Includes DVD "Cat in the Hat Let's Go on an Adventure"

Books "Dreaming Up" and "Iggy Peck, Architect"

2 sets of Brain Builders KEVA planks with challenge cards- one a junior set for ages 4 to 7 and the other for ages 7 and up

### **STEAM Decimals and Rounding Kit**

Kids use a cash register and play money to learn about currency and making change. Base ten cubes reinforce counting, measuring and working with patterns. Recommended for PreK-Grade 3

Wallet with pretend money and credit and debit card

Base 10 Interlocking set

Solar powered cash register

Book "Cash Kat"

### **STEAM Food and Nutrition Kit**

Get kids talking about the science of food, the five food groups, and the composition of a healthy meal. Recommended for PreK through 3<sup>rd</sup> grade

Healthy Helpings My Plate Game

New Sprouts Grow it! Imaginative play garden

Farmer's Market Color Sorting set

Book: "Our Food"

### **STEAM Gadgets, Gizmos and Gears Kit**

Introduce engineering to kids with the Qboidz set and expand cognitive, social and motor skills with the gears set. Recommended for Pre-Kindergarten through Grade 3.

QBODZ building set

Deluxe 100 piece building set

Book "Izzy Gizmo"

### **STEAM Magnets Activity Backpack**

Introduces students to the fascinating world of magnetism

Includes a variety of magnets and cards instructing experiments to do with the magnets

Books "What Makes a Magnet" and "Magnets Push, Magnets Pull"

***This backpack contains magnetic balls that are a choking hazard for children ages 3 & under, so it is only recommended for ages 4 & up***

### **STEAM MUSIC KIT: Words Musical Words Activity Backpack**

Recommended for PreK and Kindergarten

Introduces children to several basic instruments

Includes wooden sound puzzle about instruments

One rhythm band set (tambourine, triangle, maracas, cymbals, clackers and a tone block with a mallet)

Books "I Know a Shy Fellow Who Swallowed a Cello" and "Musical Instruments from A to Z"

### **STEAM Pattern Puzzles IPTV Red backpack**

Recommended for PreK through Grade 2

Explore patterns and shapes with this interactive kit

Includes DVD "Observe & Explore" from Sid the Science Kid

Books "Mouse Shapes" and "The Greedy Triangle"

38 Pattern block task challenge cards

250 Wooden pattern blocks

### **STEAM Robotics and Coding Kit**

Introduces robots and coding with these activity games for PreK through grade 3

Includes Code Hopper Active Game

Coding Critters Ranger & Zip Activity Kit

Book: "Robots Can't Dance!"

### **STEAM Roller Coaster Fun IPTV Blue backpack**

Recommended for ages 6 & up

Explore gravity through roller coasters!

Includes DVD "Peg & Cat Out on a Limb"

Books "The Thrills and Chills of Amusement Parks" and "Gravity Is a Mystery"

Game "Roller Coaster Challenge" where players build a roller coaster with tracks and the challenge cards

### **STEAM Stamps and Drawing Kit**

Recommended for PreK through Grade 3

Kit encourages everyone to make art with fun stamping items

Six-color stamp pad

6 markers

30 wooden animal stamps

1 book "Fingerprint & Draw: Animals & Insects"

### **STEAM Understanding Our Universe Kit**

Recommended for PreK through Grade 3

Explore our Universe with an inflatable solar system guide and a Shining Stars projector

Includes book "Space: planets, moons, stars, and more!"

Inflatable planet set

Star projector with activity guide and image discs

### **STEAM Weather Backpack Activity kit**

Introduces weather and how to observe the weather for Grades 1 – 3

Includes Weather observation instruments and activity cards to encourage exploration

Books: "The Cloud Book", "Weather", "Storm is Coming!" "What's the Weather Today?" and "Weather Forecasting"

### **STEAM Writing A to Z Activity Backpack**

Recommended for PreK and Kindergarten.

Kit encourages learning to write with story prompts.

Blue plastic writing board

Wood picture blocks for storytelling prompts

Books "Harold and the Purple Crayon" and "Bunny Cakes"

KITS RECOMMENDED FOR GRADES 4 AND UP:

**STEAM Math Games and Trivia Kit**

Two games that will test your knowledge of geometry, fractions and more. Recommended for grade 4 & up

Head Full of Numbers Game

Brainbox Math game

Book "Math is Awesome"

**STEAM Machines and Contraptions**

Learn about simple machines such as ramps, levers and pulleys, and practice principles of physics and engineering. Recommended for grade 4 & up

Simple machines building set

KEVA Contraptions set

Book "Neo Leo" about Leonardo Da Vinci

**STEAM Electronics, Coding and Bots Kit**

Hands on learning about Electronics and Coding, recommended for grades 4 & up

Artie 3000 The Coding Robot, a WiFi-enabled drawing robot

Snap Circuits Jr. for learning electronics basics

Book "Science Comics: Robots and Drones"

### **STEAM Estimation and Patterns Kit**

Kids practice place value, estimation and operation concepts with a 1000 piece centimeter cubes set. The 120 Activity mat teaches place value and number patterns. Recommended for grade 4 and up

Centimeter Cubes

Splash 120 Activity mat

Books "How Many Guinea Pigs Can Fit on a Plane?" and "Greater Estimations"

### **STEAM Everyday Science Kit**

Recommended for Grades 4 and up

Explore science experiments with items around the house and yard

Includes a Stir it Up Chemistry Lab & Kitchen Chemistry journal

Bug Discovery Lab

Box of 6 child sized safety goggles

Book "Super Hero Science"

### **STEAM Examine Science and Nature Kit**

Recommended for Grades 4 and up

Learn more about science by observing specimens with a microscope and playing an interactive Science and Nature game

Includes a microscope with prepared slides

Brainbox Science and Nature game

Book "Awesome 8 Epic" from National Geographic for Kids