

ACCESSIBLE STEM ACTIVITIES

HANDS-ON, SELF-LED LEARNING

GRADES K-9







DELIVER STEM EXPLORATION AND DIY FUN

At the National Inventors Hall of Fame® (NIHF), we understand the challenges educators and families are experiencing this school year. Our Innovation Exploration Kits™ offer a simple, affordable solution.

Delivering the hands-on invention education we have provided for 30 years, our kits include everything students need to complete engaging activities and build 21st-century skills in self-led, at-home and blended settings.

EASY IMPLEMENTATION

- . Deliver a complete set of high-quality materials in each kit
- · Provide step-by-step guides to help children complete each activity
- · Offer access to digital assets for optional enhancements to the experience

INNOVATIVE EXPERIENCES

- · Emphasize creative problem solving through real-world challenges
- Encourage STEM exploration through hands-on activities
- · Introduce confidence-building lessons from the world's greatest innovators

EQUITABLE SOLUTIONS

- · Provide a full experience for each child, regardless of internet access
- · Support independent exploration with no need for educator involvement
- · Foster curiosity, creativity and authentic engagement among all students

THE INNOVATION MINDSET

At NIHF, we believe every child can invent. Through open-ended, hands-on exploration, our programs help children build an Innovation Mindset – a growth mindset infused with lessons from world-changing inventors – to enable and empower them in any area of life.

The Innovation Mindset is made up of nine essential skills and traits that are strengthened every time a child applies them. Each Innovation Exploration Kit highlights different aspects of this mindset, guiding students to unlock their potential and discover the magic of their own creativity.



INNOVATION EXPLORATION KITS



I CAN INVENT™ SERIES, K-6

With real robots in each kit, students engage in our most popular handson activities, from coding to reverse engineering.

- Innovation
- Persistence
- Design Thinking
- STEM



ELEVATE SERIES, K-6

Four inspiring kits lead students on a journey exploring principles of flight, sports innovations, real environmental challenges and more.

- Design Thinking
- Creative Problem Solving
- Intellectual Property
- Entrepreneurship



INNOVATION FORCE® LIMITED EDITION KIT, K-6

Imaginative activities help students build confidence in their creativity as they design superhero personas, disguises and gadgets.

- Innovation
- Confidence
- Creative Problem Solving
- STEM



INVENTION PROJECT® SERIES, 6-9

Young innovators gain valuable skills as they explore entrepreneurship, design futuristic clothing, build simple robots and more.

- Confidence
- Persistence
- Entrepreneurship
- Intellectual Property

I CAN INVENT

INNOVATION EXPLORATION KIT**



This robust series delivers the most popular activities from past Camp Invention® K-6 programs. Each one includes a different robot and provides opportunities for hands-on exploration. The experience begins with our Starter Set, and additional kits can be added for more fun and learning.

PRICING:

\$175 for the bundle of all five kits \$65 for the Starter Set \$45 for each additional kit if purchased separately



Bot ANN-E & Innovation Force: Starter Kit



Optibot



Robotic Pet Vet



DIY Orbot

I CAN INVENT

INNOVATION EXPLORATION KIT®

INNOVATION FORCE® AND BOT ANN-E™: STARTER SET

Children dive into the I Can Invent series as they:

- Receive all the necessary supplies to create superhero disguises and gadgets, including a device that picks up toxic sludge (SLIME!).
- Unbox a high-tech agricultural robot named Bot ANN-E, and all the tools they need to complete fun challenges.
- Follow step-by-step instructions to code their robot to plant seeds and navigate landscapes they've created.



MATERIALS

AAA batteries

Beads (red and white)

Bot ANN-E robot

Bot ANN-E sheet

Bright Ideas Kit

Camp Invention T-shirt

Cape

Cardboard connectors

Comic book

Copy paper

Cord lock

Duct tape

Farm animal figure

Federico Faggin figure

Hacky sack

Inventor Log

Kaleidoscope

Markers

Mask

Masking tape

Packing paper

Pencil

Putty

Safety glasses

Safety saw

Scissors

Sliding puzzle

Slime

Step-by-step activity guides

String





INNOVATION EXPLORATION KIT®



Children prepare to navigate the future as they:

- Receive self-driving robots and everything they need to make tracks the robots can follow.
- Build creativity and persistence by personalizing, modifying and testing their Optibots.
- Explore how sensors are used in automated systems like the ones in self-driving cars.



MATERIALS

Adhesive gems

Black permanent marker

Clay

Colored permanent markers

Copy paper

Exploring With Optibot

sheet

Finger flashlights

Inventor Log

Masking tape

Ocean stickers

Optibots

Paper cups

Pencil

Spec sheets

Step-by-step activity guide









Robotics and veterinary science combine as children:

- Receive two robotic dogs one to take apart and diagnose, and one to personalize.
- Unbox all their hands-on materials and build a dog park using simple machines.
- Follow step-by-step instructions to investigate dog anatomy and perform surgery.



MATERIALS

AA batteries

Adhesive fur

Adhesive gems

Craft sticks

Fur templates

Foam blocks

Masking tape

Inventor Log

Operation table sheet

Pencil

Robotic dog

Safety glasses

Scissors

Screwdrivers

Step-by-step activity guide



I CAN INVENT

INNOVATION EXPLORATION KIT®

DIY ORBOT™

Children take on exciting challenges as they:

- Receive all the materials they need to customize and operate remote-controlled robots.
- Build perseverance by completing a series of tasks with their robots.
- Explore lessons in reverse engineering and the invention process.



MATERIALS

AAA batteries

Button batteries

Certification stickers

Copy paper

Craft sticks

DIY Orbot face stickers

DIY Orbots with remotes

Foam blocks

Googly eyes

Inventor Log

Masking tape

Pencils

Pipe cleaners

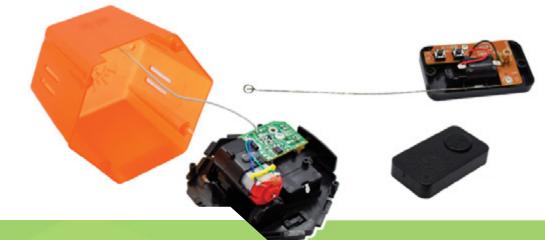
Safety glasses

Scissors

Screwdriver

Step-by-step activity guide

Table tennis ball



For more information, visit invent.org/kits



CURIOSITY TAKES FLIGHT WITH EXCITING CHALLENGES

Our Elevate series lets children's imaginations soar. Students in grades K-6 are introduced to world-changing inventors, practice divergent thinking and explore a different theme in each of four kits, from flight and sports innovations to intellectual property and environmental science.

PRICING:

\$115 for all four kits

ACTIVITY GUIDES:

Available in both English and Spanish



Camp Invention Champions



Design Thinking Project



Camp Invention Flight Lab



Rescue Squad



CAMP INVENTION CHAMPIONS™

Children become game-changing innovators as they:

- Receive everything they need to design and build the ultimate sports complex.
- Collect Inventor Trading Cards to discover the inspiring stories of inventors who have shaped the world of sports.
- Follow step-by-step instructions to incorporate simple machines into tabletop games.



MATERIALS

Ball bearing

Balloon cups and sticks

Bendable straws

Bungee cord

Button magnets

Champions Box

Coffee stirrers

(wooden paddle-shaped)

Cord locks

Foam ball

Innovation Dream Team

Trading Cards

Inventor Log

Jumbo craft sticks

Markers

Masking tape

Netting

Pencil

Plastic game piece stand

Player silhouette sheets

Playing surface sheets

Scissors

Step-by-step activity guide

Triangular paper clips







Children begin to see themselves as capable creators and entrepreneurs when they:

- Engage in activities that build design thinking skills, empathy and persistence.
- Gain tools and experiences that will help them understand the value of intellectual property.
- Follow step-by-step instructions to sketch ideas, build prototypes, design logos and make pitches.



MATERIALS

Black paper

Black permanent marker

Clay

Clay tool

Deal cards sheet

Design Thinking Portfolio

Inventor Log

Markers

Masking tape

Patent drawings sheet

Patterned duct tape

Pencil

Pipe cleaners

Plastic base

Ruler

Scissors

Step-by-step activity guide

The Creator's Key to Intellectual Property poster

Tracing paper

Transparency

Video game controller patents sheet

White chalk





CAMP INVENTION FLIGHT LAB™

Children earn their wings as they:

- Take apart and customize a high-tech flight simulation robot.
- Follow step-by-step instructions to investigate the inner workings of their robot.
- Receive everything they need to experiment with principles of flight, such as lift and thrust.



MATERIALS

AA batteries

Classic paper airplane sheets

Classic paper airplane instructions

Feathers

Flight Inductee Book

Hand-copter

Inventor Log

LINK accessory stickers

LINK robot

Pencil

Safety glasses

Screwdriver

Step-by-step activity guide

Straw

Washi tape

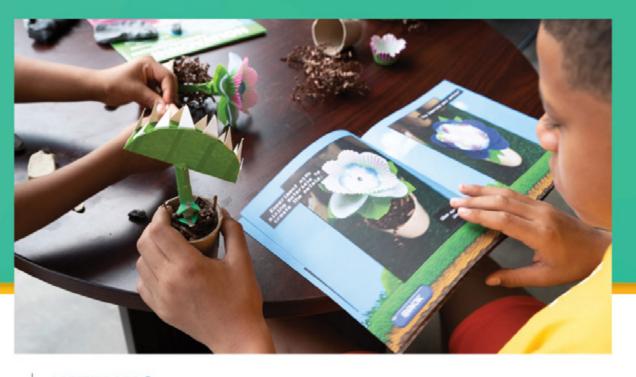






Creative thinking helps protect the planet as children:

- Follow step-by-step instructions to construct parachutes and safely airdrop wildlife.
- Receive all the materials they need to design and create an energy-efficient LED plant.
- Take on environmental challenges and practice creative problem solving to restore balance in nature.



MATERIALS

Animal figure

Brown crinkle paper

Clothespins

Coin battery

Craft stick

Felt flower

Flowerpot

Glowing Garden Book

Green painter's tape

Inventor Log

Leaf template

Lei flower

Markers

Masking tape

Paper muffin cup

Pencil

Rainbow LED

Rescue Squad temporary tattoo

Resealable plastic bag

Scissors

Silver conductive tape Step-by-step activity guide

String





IMAGINATIVE ACTIVITIES AT AN AFFORDABLE PRICE

This kit delivers superhero-themed activities meant to engage and inspire children in grades K-6. Available for a limited time, this kit has flexible delivery options and price points.

PRICING:

Centralized Delivery:

\$10 per kit, 1-3 delivery sites

Decentralized Delivery:

\$12 per kit, multiple (up to 30) delivery sites

Home Delivery:

\$16 per kit, delivered directly to student's home address

ACTIVITY GUIDES:

Available in both English and Spanish





INNOVATION FORCE® LIMITED EDITION

Children unlock their creative superpowers as they:

- Design and create their own superhero persona and disguise to join the Innovation Force - a team of heroic inventors.
- Receive a series of fun worksheets to put their superpowers to the test.
- Get immersed in the Supercharged Comic Book story starring our NIHF Hall of Famers.



MATERIALS

Cape

Cardboard connectors

Mask

Pip lizard figure

Pip activity cards

Slime

Step-by-step activity guide

Supercharged Comic Book

WORKSHEETS

Hall of Famer activity sheet (3)

Hall of Famer quiz challenge sheet (5)

Innovation Force quiz Math worksheet



INNOVATION EXPLORATION KIT™

INVENTION PROJECT SERIES



This inspiring set of four at-home activity kits delivers the hands-on fun of Camp Invention and elevates it to engage students in grades 6-9. Each kit is packed with all the materials innovators need to take on exciting challenges and build perseverance and goal-setting skills.

PRICING:

\$135 for all four kits

ACTIVITY GUIDES:

Available in both English and Spanish



E-Racer Bots



Fly Gliders



RC Origami Bot



Wear It Out

INVENTION KITT INVENT

E-RACER BOTS™

Children develop persistence as they:

- Create simple robots using a motor and eraser.
- Use vibration to make their robots move through trial and error.
- Gain insight on advanced batteries from Collegiate Inventors Competition® Finalists.



MATERIALS

Binder clips

Chart paper

Coin batteries

Corks

Erasers

E-Racer bots sheet

Feathers

Large paper clips

Markers

Masking tape

Pencil

Pushpins

Rubber bands

Scissors

Small paper clips

Step-by-step activity guide

Vibrating motors

Webbing Out sample sheet



INVENTION KITTON KITTON

FLY GLIDERS™

Imagination takes off as children:

- Receive all the materials they need to explore flight, inspired by NIHF Inductees Orville and Wilbur Wright.
- Experiment with an electronic heliball and airplane structural design.
- Build a rescue plane prototype and explore the role of wing shape and nose weight in an airplane's trajectory.



MATERIALS

Hand-copter

Classic paper airplane sheet

Colored copy paper

Markers

Masking tape

Paper clips

Scissors

Heliball

Masking tape

Safety glasses

Step-by-step activity guide



INVENTION EXPLORATION KITS
INVENTION
PROJECT
SERIES

RC ORIGAMI BOT™

Children explore new possibilities as they:

- Receive all the materials they need to construct and operate a remote-controlled robot.
- Apply creative thinking to transform their bots from 2D figures to 3D objects.
- Explore remote-control technology, including the use of medical robots.



MATERIALS

AA batteries

Black permanent marker

Markers

Masking tape

RC Origami Bot Kit

Safety glasses

Scissors

Screwdriver

Step-by-step activity guide

Transparent tape



INVENTION EXPLORATION KITTER SERIES

WEAR IT OUT™

Children bring innovative ideas to life as they:

- Use creative problem solving to engineer clothing of the future to function in extreme weather.
- Follow step-by-step instructions to protect their idea, draft a business plan and launch a powerful pitch.
- Receive complete materials and inspiration from NIHF Hall of Famers to tap into their creativity.



MATERIALS

Adhesive notepad Business Basics sheet

Coin batteries

Conductive thread

Copy paper

Fabric

Feathers

Felt

Go-to-Market sheet

LEDs

Markers

Masking tape

Pencil

Pipe cleaners

Recyclables

Scissors

Sewable sequin lights Sewing needle with cork Step-by-step activity guide

The Creator's Key to Intellectual Property poster Threader Umbrella

Wear It Out sheet



KEEP STUDENTS ENGAGED WITH ACTIVITY KITS

TO LEARN MORE, CONTACT:

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