

# ACCLAIMED SUMMER STEM PROGRAM

FOR GRADES K-6



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Our nationally recognized K-6 summer enrichment program, Camp Invention®, is a weeklong day camp that has reached children across the country for more than 30 years. Each year, brand new curriculum is developed and tested to deliver handson activities that encourage divergent thinking. Camp Invention is backed by independent research, inspired by lessons from world-changing inventors and designed to spark imaginations through open-ended engagement in creative problem solving.

My kids and I love the HANDS-ON EXPLORATION AND OPEN-MINDED THINKING and brainstorming of ideas. They are free to discover, imagine and grow for a whole week unrestricted, EVERY THOUGHT AND IDEA IS ACCEPTED and can be built upon.

JAN O. CAMP INVENTION INSTRUCTOR



## **INNOVATIVE EXPERIENCES**

- Real-world challenges lead children to practice empathy, and build confidence and persistence while becoming solution seekers
- Authentic, collaborative STEM experiences foster 21st-century skills
- High-energy activities and opportunities for outdoor exploration keep children active and engaged

# TURNKEY IMPLEMENTATION

- All-inclusive program curriculum and materials
- Promotional materials provided to help drive registrations
- Dedicated National Inventors Hall of Fame® (NIHF) support

# FLEXIBLE & IMMERSIVE CURRICULUM

- Four thematic modules with hands-on activities
- Adapts to meet unique scheduling needs for an in-person or at-home experience
- Aligned to State, Common Core and Next Generation Science Standards

# In-person experience.





# SIMPLIFY SUMMER PLANNING

# IN-PERSON AND AT-HOME FORMATS FOR PEACE OF MIND

Our 2021 Camp Invention program has flexibility built in. Typically offered as a one-week camp, the program schedule can be customized to meet district needs and is designed to run both in person and at home.

Each experience delivers consistent activities for students, and educators are provided with implementation support for both formats. The at-home experience, with on- and off-screen learning options, ships materials directly to campers and provides educators with interactive videos and scripts. The in-person format provides the step-by-step curriculum for educators and all the materials are shipped directly to the program site or other preferred location.

Districts can quickly pivot to a fully at-home experience if necessary, and parents can change their experience format up to six weeks before their camp start date. This approach empowers educators and families to confidently make plans now and adjust later.

Regardless of how circumstances may change, your Program Team – certified local educators – will be ready, and children will enjoy the benefits of camp no matter where it takes place.

# THE INNOVATION MINDSET

Every NIHF education program is built on the belief that every child can invent. Through open-ended, hands-on exploration, children build an Innovation Mindset – a growth mindset infused with lessons from world-changing inventors – that enables and empowers them in all areas of their lives.

The Innovation Mindset is made up of these nine essential skills and traits that are strengthened every time a child applies them. Each Camp Invention module highlights different aspects of this mindset, guiding children to unlock their full potential and discover the power of their own creativity.



## **2021 CAMP INVENTION MODULES**



## CAMP INVENTION DUCK CHUCK™

Through hands-on experiments with trajectory and velocity, children build their own device to launch rubber ducks around the world.

- STEM
- Entrepreneurship
- Creative Problem Solving



## CAMP INVENTION OPEN MIC™

To amplify their creative voice, children reverse engineer a wireless microphone, then develop and promote their own extraordinary invention.

- Confidence
- **●** Intellectual Property
- Design Thinking



## CAMP INVENTION ROAD RALLY™

Imaginations accelerate as children design a vehicle that can travel across land and has prototype elements for moving through air and water.

- Persistence
- Design Thinking
- Innovation



## **CAMP INVENTION SOLARBOT™**

To take care of their very own solarpowered robotic cricket, children create protective gear, customized habitats and fun cricket playgrounds.

- Creative Problem Solving
- Persistence
- STEM





Entrepreneurship

Marketing

Angles and Measurement

Trajectory and Velocity

# **DUCK CHUCK MODULE OVERVIEW**

In this global adventure, children design, build and test a device to launch rubber ducks. First, they collect and budget "quack coins" to buy materials for creating their device. Then they launch their ducks around the world in an exciting effort to visit famous landmarks while putting the physics concepts of trajectory and velocity to the test.

## **CURRICULUM HIGHLIGHTS**

THIS MODULE EMPHASIZES THESE ASPECTS OF THE INNOVATION MINDSET:



Exploring STEM concepts like velocity and trajectory to design launching devices.



Building entrepreneurship skills by trademarking and marketing inventions.



Determining how to modify inventions through hands-on, creative problem solving.





**Intellectual Property** 

**Presentation Skills** 

**Reverse Engineering** 

Sketching and Designing Invention Prototypes

# **OPEN MIC MODULE OVERVIEW**

In this empowering module, children voice their ideas as their imaginations are amplified through invention and entrepreneurship! First, they reverse engineer a wireless microphone, and then they follow the Camp Invention Design Thinking Process<sup>TM</sup> to develop and pitch their own amazing inventions.

## **CURRICULUM HIGHLIGHTS**

THIS MODULE EMPHASIZES THESE ASPECTS OF THE INNOVATION MINDSET:



Gaining confidence while sharing original ideas and delivering persuasive invention pitches.



Discovering the power and purpose of Intellectual Property through lessons from world-changing inventors.



Practicing Design Thinking by moving from sketches to prototypes to marketable products.





Animal Features and Adaptations

**Motion in Nature** 

**Building and Testing** 

**Energy** 

# ROAD RALLY MODULE OVERVIEW

Entering a Vehicle Design Lab, children apply nature-based discoveries to create vehicles that can travel across land and have morphing prototype elements to show how it might adapt to move through the air and even under water. Exploring energy, fuel and movement, children modify their designs to take on challenges in an exciting Super Road Rally.

## **CURRICULUM HIGHLIGHTS**

THIS MODULE EMPHASIZES THESE ASPECTS OF THE INNOVATION MINDSET:



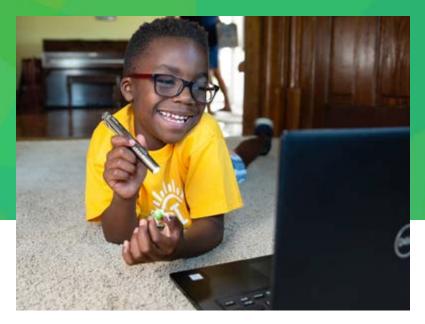
Building persistence through the process of creating and modifying prototypes.



Applying Design Thinking to give vehicles the ability to maneuver through a series of obstacles.



Achieving innovation by adding elements inspired by nature to morphing vehicle designs.





**Alternative Energy** 

Circuitry

Habitats and Ecosystems

**Water Conservation** 

# **SOLARBOT MODULE OVERVIEW**

Children explore circuitry, engineering and cricket anatomy as they make and adopt their own solar-powered robotic cricket. Hands-on challenges lead them to consider the lives of real insects as they create customized habitats complete with cricket playgrounds, develop cricket-inspired musical inventions and outsmart predators.

## **CURRICULUM HIGHLIGHTS**

THIS MODULE EMPHASIZES THESE ASPECTS OF THE INNOVATION MINDSET:



Applying STEM to understand crickets' antennae, molting abilities, sound detection and powerful legs.



Developing persistence while designing and testing protective gear for SolarBots.



Using creative problem solving to build cricket wings and compete in a Chirp-Off.





**Gross Motor Skills** 

**Fine Motor Skills** 

**Teamwork** 

**Creative Thinking** 

# **CAMP INVENTION GAMES OVERVIEW**

Camp Invention Games supplements our four core modules by giving children the opportunity to engage in more teamwork, out-of-the-box thinking and physical fun through energetic and enriching activities. Games can be used during the lunch break each day or implemented during Base Camp, where children begin and end each day.

\*Games applies to our in-person format only.

## **CURRICULUM HIGHLIGHTS**

CAMP INVENTION GAMES EMPHASIZES THESE INNOVATION MINDSET HABITS:



Gaining confidence and building agility through both collaboration and competition.



Applying creative problem solving to devise strategies in games using unusual objects and new rules.



Building persistence to overcome fun challenges, from balloon tosses to relay races.

# A TYPICAL DAY AT CAMP INVENTION IN PERSON

A TYPICAL DAY1 AT CAMP INVENTION IN PERSON MAY FOLLOW THE SCHEDULE BELOW:

# EXTENDED DAY

Children
participating in
Extended Day<sup>2</sup>
enjoy activities
that build on the
momentum of the
core program.

7:30 A.M.

# 9 A.M. MORNING BASE CAMP Children anger

Children engage in Activity Kit experiences to prepare for the day.



# PROGRAM MODULES

Children
warm up their
imagination with
STEM challenges
in the first two
modules of the
day.

9:15 A.M.

# 11:40 A.M.

# **LUNCH BREAK**

Half the participants enjoy lunch while the others go outside for Camp Invention Games, and then they switch.



# PROGRAM MODULES

Children engage in more handson STEM and Design Thinking Challenges as they dive into the two afternoon modules.

1:05 P.M.



# AFTERNOON BASE CAMP

Children wind down with problem-solving games before signing out.





## **EXTENDED DAY**

Children
participating in
Extended Day<sup>2</sup>
are picked up after
engaging in more
fun, hands-on
activities.

5:30 P.M.

# A TYPICAL DAY AT CAMP INVENTION AT HOME

Prior to the program week, each participant registered for the at-home experience will receive their Camp Invention At Home activity kits delivered directly to their home. Participants are encouraged to unbox and explore their materials before camp begins!



DAILY KICKOFF

Coaches kick off each day of camp with a live online session that includes icebreakers, module instruction and opportunities to collaborate.

# **CREATE AND** INVENT

Together, Coaches and participants make, create and invent.



Participants join their Coach and fellow campers to socialize. build friendships and gear up for the rest of



# **UNPLUG AND GET OUTDOORS**

Hands-on STEM exploration continues as participants enjoy screen-free time and get outdoors with highenergy activities.



# **AFTERNOON** HANGOUT

the day's hands-on fun.



## **COLLABORATE AND SHARE**

Participants join their fellow campers and Coach online to complete their final challenge and share their projects and inventions.

# WHAT'S INCLUDED: CAMP INVENTION IN PERSON AND AT HOME

			Camp Invention In Person	Camp Invention At Home
CAMP INVENTION PROVIDES	Program Logistics	Program Team compensation	✓	✓
		Program Team orientations	✓	✓
		Participant registration portal	✓	<b>✓</b>
		Promotional support (advertising, banners, flyers and posters)	✓	<b>✓</b>
	Implementation Support	Materials, curriculum and instructor guide for 32.5 hours of programming, shipped directly to the program location	✓	
		Materials and step-by-step activity guides for 32.5 hours of programming, shipped directly to each participant and Program Team Member		<b>√</b>
		Daily schedules and prerecorded videos to supplement the curriculum	✓	<b>✓</b>
		Scripts to facilitate the program, with content that varies for in-person and at-home sessions	✓	<b>✓</b>
		Screen-free or online experience option for participants		<b>✓</b>
		Camp Invention T-shirt for participants and Program Team Members	✓	<b>√</b>
		Liability insurance	✓	
	District or Host Site Provides	Classroom or physical space	<b>√</b>	
		Online platform for at-home experience		<b>√</b>
		Assistance distributing promotional materials and driving registration	✓	✓
		Assistance securing Program Team Members	<b>√</b>	✓



# **PRICING**

With our traditional parent-paid model, the district or host site provides the space needed for the in-person camp and secures the certified local educators who serve as Program Team Members for both in-person and at-home experiences. The program cost is covered by each participant, and there is no added fee to host the program.

- \$235 per participant¹ for in-person or at-home program
- \$315 including Extended Day (for in-person programs only)
- Registration discounts available for Program Team Members, district employees and families
- 1. Per-participant registration and Extended Day costs may vary to cover building use and other district fees.

If parent funding is not an option, our education programs also qualify for Title I, Title II, Title IV, 21st Century Community Learning Centers, Migrant Education and Early Learning Challenge funding, as well as state and local district resource funding.

2. Discounts may vary.

# **HOW IT WORKS**

## PARTNER WITH NIHE

- NIHF: Regional representative provides exemplary support throughout the experience
- HOST SITE: Confirm program location and dates
- **HOST SITE:** Confirm program Director
- NIHF: Registration opens

# **KICK OFF CAMP PROMOTIONS**

- NIHF: First flyer is provided including \$40 participant discount<sup>2</sup>
- NIHF: Ship promotional box to the Director
- NIHF: Host Director promotional orientation
- **DIRECTOR:** Secure Program Team Members

# **AMPLIFY CAMP PROMOTIONS**

- NIHF: Second flyer is provided including \$30 participant discount
- PROGRAM TEAM: Spread the word about Camp Invention using the provided resources including social media write-ups, newsletters and digital ads
- NIHF: Third flyer is provided including \$25 participant discount
- **DIRECTOR:** Communicate all Program Team and host district employee discounts

## PREPARE FOR CAMP WEEK

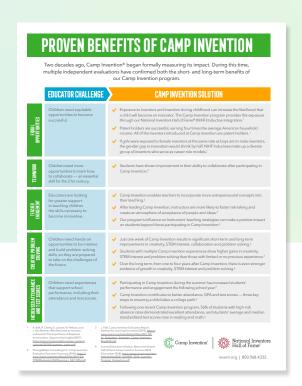
- NIHF: Host Director logistics orientation
- NIHF: Schedule program materials and curricula for delivery
- **DIRECTOR:** Confirm Program Team based on enrollment
- **DIRECTOR:** Summer is here! Launch your Camp Invention program!

# **APPENDIX**



## **DISTRICT LIST**

View our district partners across the country.



## **EVALUATION SUMMARY**

Learn more about the proven benefits of participating in Camp Invention.



## **CURRICULUM EXCERPT**

View a sample of our curriculum to see how we provide detailed guidance for easy-to-implement program experiences.

# CUSTOMIZE A SOLUTION FOR YOUR DISTRICT TODAY!

## **TO LEARN MORE, CONTACT:**

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Inspiring Future Innovators®