



# Camp Invention<sup>®</sup>

## FAST FORWARD PROGRAM HIGHLIGHTS



### IN MOD MY MINI MANSION™, CHILDREN WILL:

Explore the Internet of Things and how smart devices are connected and controlled as they design their own smart home.

Learn how power plants transform energy from renewable sources, then incorporate smart power into their structures.

Identify the letters of binary code and use them to create a message.



### IN ROBOTIC PET VET™, CHILDREN WILL:

Become robotic pet veterinarians as they use real tools to take apart their dogs and compare the inner mechanics to the biology of animals.

Use spatial reasoning to construct a dog park.

Analyze the simple machines used to make their robotic dog move, bark and light up.



### IN OPTIBOT™, CHILDREN WILL:

Design tracks for their Optibot – a small driving bot that senses changes in dark and light surfaces – to follow and explore different modes of transportation.

Explore the functionality of impact sensors using a small-scale crash test dummy.

Discover how sensors are used in vehicles to create automated systems like the ones in self-driving cars.



### IN STICK TO IT™, CHILDREN WILL:

Receive daily challenges from National Inventors Hall of Fame<sup>®</sup> Inductees that inspire them to think big, be creative and build confidence in their ideas.

Explore energy and force by launching rockets to knock socks off a clothesline.

Explore non-Newtonian fluids and magnetism by using magnets to make slime move.