



Nevada Governor's Office of Science,  
Innovation and Technology  
**STEMList Recommended STEM Program**



**KIBO Robot by KinderLab Robotics, Inc.**  
STEMList Program Since 2017

### PROGRAM OVERVIEW

KIBO is a screen-free STEAM robot kit designed for young learners from PreK to 5<sup>th</sup> grade to develop their STEM/STEAM, computational thinking, and computer science skills. Through hands-on coding, creative expression, and imaginative play, children imagine, build, decorate, program, and bring their robots to life! Backed by over 20 years of early childhood STEM research, KIBO sparks curiosity, fosters problem-solving, and promotes collaboration.

By coding with KIBO's programmable wooden blocks, children explore STEAM concepts, create sequences, and learn the Engineering Design Process. And with the hands-on, explorative nature of KIBO, little coders turn their ideas into tangible creations through active, play-based learning—exactly what their young minds and bodies need, as research shows young children learn best by doing.

### TARGET GRADES

KIBO is designed for Preschool through 2nd grade, with curriculum extensions for grades 3-5.

### A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

KIBO is entirely screen-free, as children program their robot using programmable wooden blocks with scannable barcodes. KIBO is the only research-based robot available that is designed specifically to introduce young children to robotics, engineering and programming, in a developmentally appropriate way without any screen-time!

### THE PROGRAM'S IMPACT ON STUDENTS

KIBO introduces key principles with proven efficacy in helping kids learn STEAM concepts —and getting them excited about it! The impact of KIBO is documented in extensive research conducted by Dr. Marina Bers, co-founder of KinderLab. Research is available at [kinderlabrobotics.com/research](http://kinderlabrobotics.com/research).

### SPECIFIC SKILLS STUDENTS WILL LEARN

KIBO's open-ended platform encourages young learners to explore their imagination and creativity while learning essential STEAM skills in a fun and playful way. Through KIBO, children learn sequencing, executive function, computational thinking, as well as cooperation and collaboration.

### RESOURCES PROVIDED TO EDUCATORS

KinderLab offers a complete suite of teaching materials designed to integrate STEAM concepts into a wide range of curricula, including literacy, math, social studies, science, and more. Our core curriculum, *Growing with KIBO*, provides 60 hours of cross-curricular lessons in computer science and engineering, aligned with Nevada's NVACS in Computer Science. This curriculum is supported by over 100 hours of activity cards, supplemental lesson books, assessment workbooks, and engineering design journals. Additionally, KinderLab offers a range of training and professional development opportunities to support educators.

### WEBSITE

<http://kinderlabrobotics.com/kibo/>

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