

Playful STEAM Robotics @ Home



3 Benefits of KIBO:

* Screen-Free * Imaginative * Collaborative

The situation...

Now more than ever, parents and caregivers are being called upon to support their children's learning at home. But how do parents find the best educational solutions for their child?

For young learners, creative technology tools and resources should be **screen free**, provide **playful learning experiences**, and support both **collaboration and independence**.

There are so many products available that introduce coding, robotics, and technology concepts for young children, but which solution is best?

We'd like to introduce you to **KIBO**.



What's a KIBO?

KIBO is a robot kit specifically designed for young children aged 4 and up. KIBO is entirely screen free, as children program their robots with code found on wooden blocks or cards. Through these hands-on materials, children engage with powerful ideas in computer science, engineering, and design thinking in an age appropriate way. With KIBO, children build, program, decorate, and bring their own robot to life.

Let's look at 3 benefits of using KIBO!



I: Screen-free coding

Young children think and learn best when moving, playing, building, and engaging with physical objects. But computer programming is often screen-based, making it too abstract for young children. And we all want children to have less screen-time.



Working with robots like KIBO helps children connect the abstract ideas of coding to the physical movement of the robot. Children program KIBO by putting together a string of physical wooden blocks or paper cards. Children scan their program with KIBO to “teach” their program to KIBO, one block or card at a time. No screen required!



“KIBO truly is a one-of-a-kind
screen-free toy!

It is a fun way to teach kids to code
and interact with robots.”

– *Alpha Omega Family Adventures*



2: Imaginative play

STEAM learning brings **Art!** into the mix when working with technology.

With the right tools, we can connect learning with children's playful, imaginative, storytelling impulse. This is the magic of STEAM education: Children learn through creative play, and KIBO provides a way to express their wide range of interests.



With KIBO, children tell stories, choreograph dances, create a robotic vehicle to explore a cardboard town, and create programs that model the behavior of animals in their habitats, all while learning computational thinking and coding skills.

When children build onto KIBO's art platforms with arts and craft materials, they aren't simply decorating their robot, they are transforming it into a character in a story they imagine.



“Many kids are ready to play with these tools starting at age 4 or 5.

Robots are **creative and open-ended** coding ‘playgrounds’ that let kids make their own creations.” – *Noggin*

3: Collaboration and Independence



KIBO lets a parent, caregiver, or older sibling share in the learning process side-by-side with the young child. You can prompt your child to explore KIBO concepts more deeply by asking questions.

Invite the child to explore with an open attitude. By working together, the child can even take on the role of teacher, an empowering experience for a young child.

What should KIBO be today?

What else can we add to KIBO?

What do the symbols on KIBO's blocks mean?

What does this part do?

What can you show me about how KIBO works?



KIBO is also well suited for independent exploration. Once children understand how to create a program and “teach” it to KIBO, they can continue to explore and build upon this experience on their own. They can share their discoveries and creations with you, a sibling, or friend afterward!



“KIBO is a tangible link between imagination, learning, and play that the whole family can enjoy.” – *KnowTechie*



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