

AI-Coding Program

The AI-Coding program moves beyond screen-based learning, enabling young children to bring their imagination to life through hands-on interaction with smart blocks. The exciting experience of seeing logical sentences they create visualized by AI inspires creativity. Building on these ideas, children assemble blocks while developing both fine motor skills and critical thinking.

Based on the STEAM program curriculum, the program helps children intuitively understand the principles of coding. Beyond learning how to use technology, it also fosters healthy digital literacy by encouraging them to solve problems independently and communicate their ideas effectively.

Learning Objectives

- Develop logical thinking naturally by constructing sentences and assembling blocks
- Use AI as a tool to bring ideas to life, refine them independently, and discover unique solutions.
- Build a healthy approach to digital media by using it as a tool for expressing ideas rather than simply consuming content.

Educational Benefits

Independent and Purposeful Engagement

Children learn to use digital devices actively and purposefully rather than simply interacting with them passively.

Critical Media Literacy

Children develop the ability to evaluate media outputs instead of accepting them as they are, revising and improving them to better reflect their own intentions.

Self-Directed Learning and Exploration

Rather than following one-way instruction, children naturally extend their learning through play by deciding for themselves what to do next.

Learning Process

① Connecting Experiences ▶

Recall creations made in the STEAM program and prepare for the day's activity.



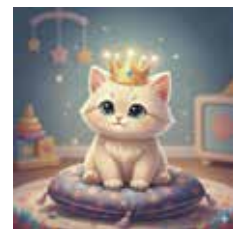
② Sentence Design ▶

Build logical sentences by selecting subject-object-verb keywords.

The kitten is wearing
a sparkling crown
on its head.

▶ ③ Visualizing Imagination

Generate images by entering previously created sentences into AI.



④ Critical Thinking & Revision ▶

Review generated images, find conditions to change, and predict outcomes while refining keywords.



⑤ Physical Design ▶

Based on the final image, proceed with assembly design linked to smart blocks.



▶ ⑥ Final Creation

Follow the image to directly manipulate blocks, complete a physical creation, and continue with free play.

