YOUR GO TO
RESOURCE LIST

iRobot Root Coding
root.samlabs.com

Basic Use: A web-based platform for coding the iRobot Root robot. It offers three levels of coding, from simple graphical blocks to a full text-based language like Python.

Learning Opportunities: Provides a seamless progression in coding skills, from visual programming to advanced text-based coding, and connects digital code to physical robot actions.

Code.org
code.org

Basic Use: A non-profit with a wide range of free coding lessons and curriculum. Their "Hour of Code" tutorials feature popular characters from Minecraft, Star Wars, and more.

Learning Opportunities: Introduces a broad range of computer science concepts through engaging, self-paced lessons used in classrooms worldwide.
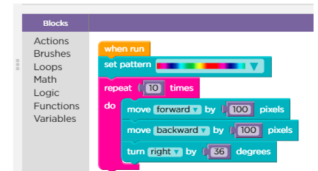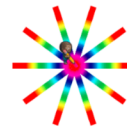
Scratch
scratch.mit.edu

Basic Use: A block-based visual programming language designed for children. Kids snap together code blocks to create interactive stories, games, and animations.

Learning Opportunities: Teaches fundamental coding concepts, logic, and creative storytelling in an intuitive way. It's a great first step into coding.

CAVES TO CODE
STEAM Resources By J. Haley

Canva
canva.com

Basic Use: A web-based platform for coding the iRobot Root robot. It offers three levels of coding, from simple graphical blocks to a full text-based language like Python.

Learning Opportunities: Provides a seamless progression in coding skills, from visual programming to advanced text-based coding, and connects digital code to physical robot actions.

Tinker-cad
tinkercad.com

Basic Use: A free, easy-to-use 3D design and coding tool. Kids can create 3D models for printing, build electronic circuits, and use block-based coding.

Learning Opportunities: Introduces the fundamentals of 3D design, engineering, and electronics, bridging digital creation and physical objects.

CAVES TO CODE