

Coding at Beecher Road School

2024-2025



Coding Focus- Kindergarten

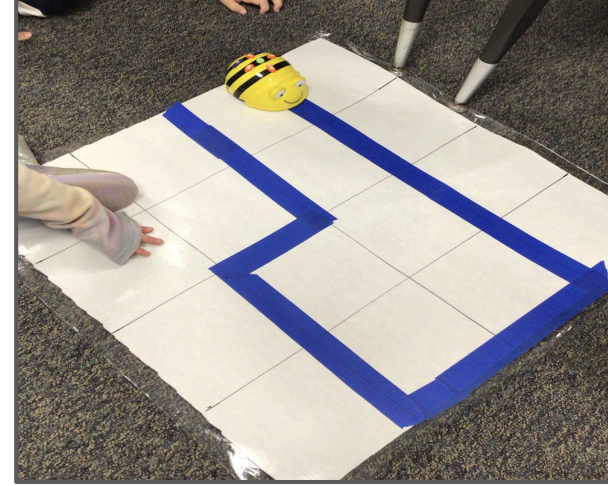
- Hands on directional based coding with robotics
- Coding fundamentals - Kodable (iPads and Computers)
 - Functions
 - Bugs/debugging
 - Conditions
 - Loops
 - Properties



Coding Focus- First Grade

- Coding

- Hands on directional based coding with robotics
 - Reminders and reinforcement of key coding concepts taught in Kindergarten (see above)
- Kodable
 - Create an interactive book using directional and block based coding
- Scratch JR
 - Create an interactive book using directional and block based coding



Coding Focus- Second Grade

- **Coding**

- Scratch Jr
 - Refresher on coding concepts taught in K/1
- Kodable
 - Refresher on coding concepts taught in K/1
 - Intro to Javascript



Coding Focus- Third Grade

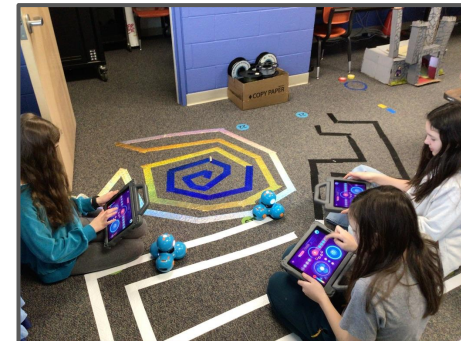
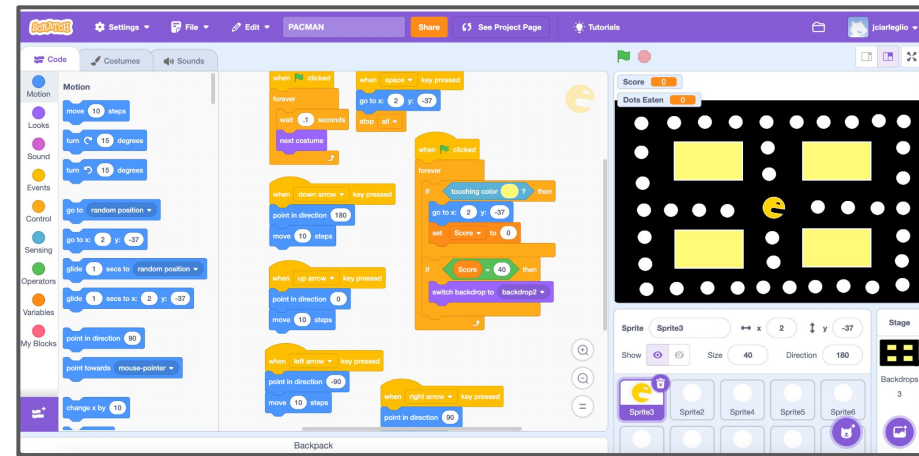
- **Coding**

- Hour of Code
- Scratch

- Intro to more advanced, block based coding skills
- Creation of a completed code
- Presentation via a Gallery walk

- Robotics

- Hands on coding skills using block based coding
- Maze building and small group problem-solving



Coding Focus- Fourth Grade

- **Coding**

- Coding reinforcement (throughout the year)
 - Code.Org Block Based Coding
 - Game Creation in Scratch
 - Hands on Coding with Ozobots
 - Robotics (Dash and Dot/Cue)
- Opportunities to expand into text based coding



Coding Focus- Fifth Grade

- **Coding**

- HTML

- Code.org

- Coding

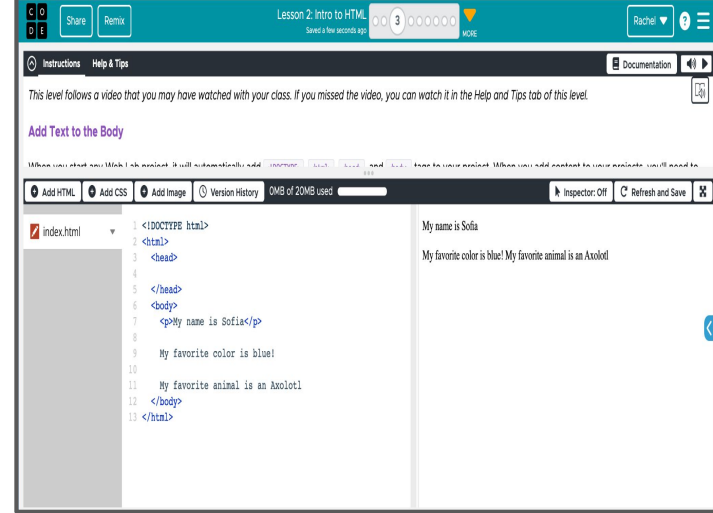
- Scratch - review of grade 3 concepts and advanced skill mini lessons

- Coding presentations

- **Advanced robotics with block based and Java based coding**

- Cue

- Dash and Dot



Sixth Grade

- The current focus is Digital Citizenship and preparing our 6th grade students for the technology transition to middle school
- In Past Years when Technology was not a special
 - Tech teachers to work with the 6th grade teams to incorporate lab time for an “Hour of Code”
 - Planning time with coding, circuit and robotic opportunities
 - Planning “Tech Days”
 - Work with teachers to coordinate coding enticement opportunities
- 24-25 School Year
 - Tech and STEAM Teachers are meeting with all grades levels, including 6th grade teachers to plan and schedule computer lab opportunities and coding time