



Scratch Coding

2nd-3rd Grade, Week of: June 6th, 2024

What We Did on...Monday:

Word Bubble

- Discussing the student's initial thoughts about programming

PB&J

- Oh no! Our volunteers forgot how to make PB&J sandwiches! Teaching the campers about specificity when writing code by demonstrating how literal instructions can be interpreted.

Scratch Tutorial and Exploration

- Teaching campers the basics of scratch and allowing them to explore the interface on their own.

Tic Tac Toe

- Campers learned how to make their own Tic Tac Toe game in Scratch

Robot Turtles

- Campers applied their programming knowledge to the outside world by writing each other coded instructions on how to navigate through a maze

Pong

- Campers learned how to make their own version of the classic game, "Pong"!

Storyboarding

- Campers came up with their own ideas for a choose-your-own-adventure style story game!



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What We Did on...Tuesday:

Flappy Bird

- Campers modify their past games to create two player games and playtest with their friends!

Air Hockey (Two Player)

- Campers create their own two player game imitating Air Hockey!

Storyboarding

- Campers share what they've created to the other campers and edit and modify past games based on new knowledge.

Catch Up on Past Games!

- Campers share what they've created to the other campers and edit and modify past games based on new knowledge.



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What We Did on...Wednesday:

Secret Sentence

- Campers encoded and decoded secret messages written in binary code

Guess the Number

- Students create Guess the Number, where a random number is generated and the player must guess it!

Platform Runner

- Campers create their own custom Flappy Bird games

Space Invaders

- Students create an arcade rendition of the classic hit game Space Invaders, complete with a scoreboard!



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What We Did on...Thursday:

Flappy Bird

- Campers modify their past games to create two player games and playtest with their friends!

Air Hockey (Two Player)

- Campers create their own two player game imitating Air Hockey!

Storyboarding

- Campers share what they've created to the other campers and edit and modify past games based on new knowledge.

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What We Did on...Friday:

Review Kahoot

- Campers show off what they've learned through a fun Kahoot competition!

Applications of Scratch (Lego Bots)

- Campers connect the digital to the physical by programming a Lego Bot through Scratch

Personal Game

- Based on all the knowledge they've gained from the week, campers created their final game by editing past games or creating new games entirely from scratch (no pun intended)

Presentations

- Campers present their final games to their peers and volunteers to show off all their hard work from the week!