

Post-trip Lesson for Code It Scratch Coding

Engagement

Scratch is a programming language created by MIT to make computer programming accessible to kids. It's great because you don't need to write code. Instead, they move color-coded blocks of code to create projects.

Show the students the following video to give them a brief understanding and quick tutorial.

<https://vimeo.com/65583694>

What You Will Need:

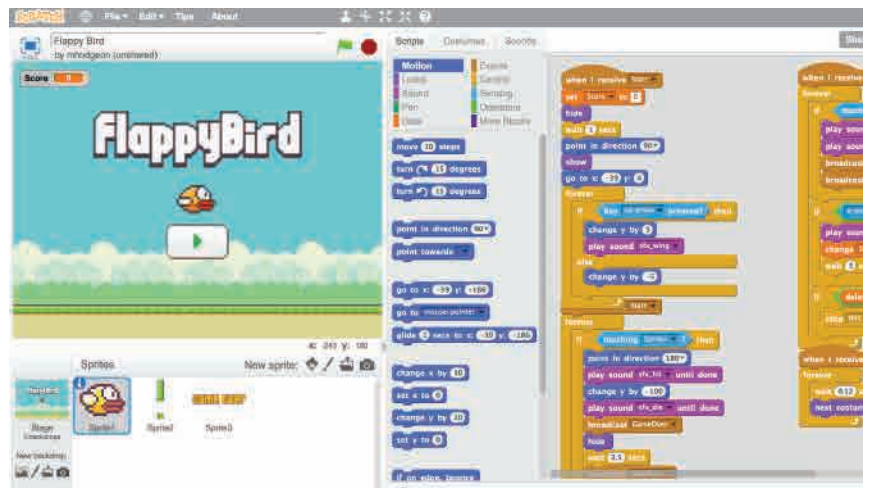
- Scratch (Free from MIT at scratch.mit.edu)
- Computer and internet

Exploration

1. Go to Scratch (MIT), have students check out three projects that other students have done and write a brief description of each.
2. After doing that they are ready to get started! On the scratch homepage, click "Try It."

Explanation

Discuss students' projects and learning experience so far. What challenges did they face. Explain that Scratch is an introduction to computer coding. This is essentially how coding works but they have given you the script in these block pieces. There are many types of computer code but all of the languages are based on the fundamental knowledge and skills we have been practicing here and when we were at The Discovery.



Other Resources

For more information on Scratch visit their educator online community - <http://scratched.gse.harvard.edu/>

The hour of code resource page has lots of great lessons and tutorials on coding - <https://code.org/learn>

Get started with Scratch - <http://tinyurl.com/GettingStartedWithScratchPDF>

Nevada Academic Content Standards in Science (NGSS): MS-ETS1-2.

Common Core: MP.2, 7.EE.3