

Potential Game-making Platforms

1. **CreatiCode:** <https://www.creaticode.com/>

Creative Block Coding platform - integrating Scratch with AI and 3D

[About CreatiCode and how it is different/related to other block coding platforms](#)

Messages from CreatiCode designers:

- You can use all the current features for free. There are some rate limits for some AI API blocks to prevent abuse and excessive usage, but for most common usage you should not hit those limits.
- We are working on new premium features (such as a fully automated coding agent), but they are not released yet, so all features being offered now are available for free.
- By the way, if your teachers are interested in teaching AI (such as using AI tools to help game development), here is a free curriculum that we developed in collaboration with the Computing and AI for All group at UCI:
<https://www.curriculum.elementarycomputingforall.org/act4>
- The lesson plans (Google Docs) include demo solutions for all projects, and the slides (Google Slides) are ready for use in classroom presentations.
- In terms of setting up classrooms, here is an article on our discussion forum about how teachers can set up a class: <https://www.forum.creaticode.com/topic/547/teacher-only-how-to-manage-students-in-the-my-class-page>. In summary, teachers can sign up accounts for all students by importing the roster from Google Classroom or by uploading a CSV file with emails and passwords. We don't require real student names or school emails. Any email can be used. These are all available for free. That article also describes teacher controls available, such as disabling certain tools or pages for their students.
- Questions? **CreatiCode** <info@creaticode.com>
- <https://youtu.be/9JaJIMyYogM?si=7YwRaDlMxtybS9fY>
- https://www.youtube.com/@creaticode_com/videos

2. **MakeCode:** a Microsoft product that has three platforms - Micro:bits, mod Minecraft, and Arcade (make retro style games) <https://www.microsoft.com/en-us/makecode>

- Arcade video tutorial: https://www.youtube.com/watch?v=DE_-0fIM324
- Micro:bit Write programs for the micro:bit The pocket-sized computer that you could embed into any project – cost for microbit modules (<https://microbit.org/buy/>) 10 pack for \$180.
tutorial: <https://www.youtube.com/watch?v=odXIBt4-FCg>
- Mod Minecraft tutorial: https://youtu.be/QLDY_HKzoOc?si=9g5GuDkpsLZgyfEE
- A mix of tutorial of all three makecode platforms: <https://www.youtube.com/@MicrosoftMakeCode/videos>
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3. Scratch <https://scratch.mit.edu/>

- Scratch is the world's largest coding community for children and a coding language with a simple visual interface that allows young people to create digital stories, games, and animations. Scratch is designed, developed, and moderated by the [Scratch Foundation](#), a nonprofit organization.
- The Learning Library has activities, lesson plans, coding cards, videos, and more, created or curated by our team of creative learning experts. Easily search by topic or keyword, and filter to find exactly what you need.
<https://www.scratchfoundation.org/learn/learning-library>
- Teacher Accounts make it easy for educators to create accounts for their students and to manage their projects and participation in Scratch.
- Scratch is free and is available in more than 70 languages.

4. Flowlab Game Creator <https://flowlab.io/>

- Runs in a web browser, nothing to install and runs anywhere, even Chromebooks!
- No additional software is needed. Edit sprites & logic directly inside Flowlab game maker
- No coding required
- Flow-based **visual logic builder** lets your students start building logic quickly, without coding.
- Export games as native apps for Android, iOS, Windows, or Mac devices
- Try the game project walkthroughs in the *Lessons* section of the teacher dashboard:
 - Simple Platform Game to start getting familiar with game creation
 - Space Pilot Game to introduce additional concepts
 - Adventure Game for more of a challenge
- 1 teacher, 25 students \$249 per year

Sample games and accompanying videos from past game jams

Grades 3-5 Digital Games

- Butterfly Migration Challenge - St. Paul's Lutheran School, Waverly
 - Game <https://scratch.mit.edu/users/DREAMTEAM591420/>
 - Video https://drive.google.com/file/d/1opeNTVYuitZ1VHbmNG-2CcqKln1_AEG1/view?usp=sharing
- [Catch/e game](#) – collect trash and move it to the top

Grades 6-8 Digital Games

- Save the Sanctuary - BCLUW Middle School, Union
 - Game [Save the Sanctuary - Flowlab Game Creator](#)
 - Video <https://share.vidyard.com/watch/ViEKBxwJTnanGMCyC2WTDQ?>

- Awesome Aces - BCLUW Middle School, Union
 - Video <https://share.vidyard.com/watch/LDr8vhJ7oCTGBTFZZVXwJU>

Grades 9-12 Digital Games

- Uproot, Fish, Swat - Harlan Community High School, Harlan
 - Game [Uproot, Fish, Swat on Scratch](#)
 - Video <https://drive.google.com/file/d/1eskTgUA-9ekNGQi9bLCJygQ9vJOB-dVc/view?usp=sharing>
- Renewal - Harlan Community High School, Harlan
 - Game [Renewable Energy Game remix on Scratch](#)
- Blink of an Eye - Harlan Community High School, Harlan
 - Game [Blink of an Eye on Scratch](#)
 - Video https://www.canva.com/design/DAGgOHkGZW8/d1jY3YsT9DAbGTI_cQMz0g/edit
- Fish Adventures - Harlan Community High School, Harlan
 - Game <https://scratch.mit.edu/projects/973474809>
 - Video <https://drive.google.com/file/d/1PQKQoFUtNA3nH0hBGdRLV1xyy4MxmApW/view>