Who: 8-10 year olds

This 1 week full day enrichment program will provide young learners ages 8-10 with an opportunity to explore several aspects of gaming and computer programming, and a chance to create a variety of digital media. Participants will spend time exploring how to make animations, games, interactive art, and how to create their own cartoon characters, as well as animate photographs. The computer software used is an iconic-based program called SCRATCH that was developed at MIT to teach young children coding technique in an easy to understand and captivating manner. Projects will allow students to create and will include stories, games, greeting cards, interactive art, music & dance, Makey Makey Invention Kit, and more.

What you will learn

Participants will learn the fundamentals of computer programing. They will utilize various strategies for solving problems and designing projects. Students will practice communication skills by presenting and demonstrating their projects and creations to the class.

Day 1 – Intro to Animation & Scratch Layout (Sprites, Background, Motion)
Day 2 – Interactive Art, Effects, If Statements
Day 3 – Broadcasts, Games, Data, Operators
Day 4 – Story Boarding Project
Day 5 – Final Challenge & Presentation to Parents

Animation & Gaming and Junior LEGO® EV3 Robotics Enrichment Academy are facilitated by Rensselaer undergraduate students under the direction of professional Rensselaer faculty and staff. Please bring lunch, snacks and beverage.