

Computer Science in Science - GUTS

Project GUTS, developed at MIT, shows middle school science teachers how to integrate computer science into their classes. The new Computer Science SOLs emphasize modelling and simulation. In 6th grade students are asked to use existing models, in 7th modify existing models and by 8th grade they should be coding models in order to conduct simulations.



The goals of GUTS include:

- Knowledge of the new Virginia Computer Science Standards
- Skills in coding using the Starlogo Nova programming language
- An understanding of how to design and teach integrated lessons

Register Here: <https://www.codevirginia.org/educator-interest-form/>

Questions? training@codevirginia.org

Who can attend?

This program is open to Virginia public school science teachers who:

- Are in a position to try computer science in their middle school science classes
- Work at the middle school level

Professional Development Model

CodeVA conducts this program at centers around Virginia. This program includes:

- Two day in-person session in July
- Online sessions October through March

All of our facilitators are experienced public school teachers with special training in computer science at the middle school level. While CodeVA cannot cover travel costs the training, all materials are free of charge.

This program is designed to help schools as they work to implement the new Virginia Computer Science Standards. Coaches are local school employees trained to support their staff by conducting professional development sessions.

The goals of the academy include developing:

- Knowledge of the new Virginia Computer Science Standards
- Skills in coding using the Scratch programming language
- An understanding of how to design and teach integrated lessons
- An ability to plan and implement local computer science professional development activities
- Awareness of resources and tools available to support both teacher and student learning

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Who can attend?

Since CodeVA piloted this program in summer of 2017 over 260 teachers have participated in the program from across Virginia. They include ITRTs, media specialists, instructional coaches, STEM coordinators and classroom teachers.

This program is open to Virginia public school teachers who:

- Are in a position to support their school staff through running training sessions and sharing resources
- Work at the elementary level
- Have a willingness to learn and explore

Professional Development Model

CodeVA conducts this program at centers around Virginia. This program includes:

- Four day in-person session in July
- Online sessions November through February
- A Saturday session in each October and March

All of our facilitators are experienced public school teachers with special training in computer science at the elementary level. While CodeVA cannot cover travel costs the training, all materials are free of charge.