STEM/STEAM and Computer Science for Parents:
Exploring Resources
Click each space to learn more about Computer Science and STEM/STEAM.
The Georgia Public Broadcast network has teamed up with the Georgia DOE to create some games for K-2 students to learn about critical math and computer science concepts. We plan to continue to build out more educational games for math, computer science and STEAM.
Computer Science Resource #2

(K-8)
For parents interested in learning what their students are learning in K-8 computer science and why it is imperative that they advocate for CS experiences at their students’ schools, these short videos outline why the new K-8 computer science standards were created.
Interland is an interactive game focused on teaching young people concepts of Internet safety and responsibility. These skills eventually evolve to become a necessary cyber awareness for living in a digital world.
STEAM Resource #4

(5-12)
The TeachRock STEAM chapter examines the connections between science, technology, engineering, and mathematics in popular music, and introduces students to many of the theories, practices, and methods regularly used in these fields.
SciGirls is an Emmy award-winning PBS Kids television show, website, and educational outreach program that draws on cutting-edge research about what engages girls in science, technology, engineering and math (STEM) learning and careers.
All middle and high schools are required to offer computer science instruction based on a 2019 legislative mandate. The implementation year for middle schools is 2022 and the implementation year for high schools is 2024. Check out the FAQ for more details and to see which courses count.
STEM/STEAM Resource #7

(K-12)
The Georgia Department of Education STEM/STEAM Team’s Micro Tour professional learning series provides an overview of STEM/STEAM practices, practices for implementation, and actionable steps to start your STEM/STEAM journey. These professional learning resources were curated specifically for rural schools and districts but are applicable to a state-wide audience.
Computer Science Resource #8

(K-12)

These courses were designed to help teachers understand the value of computing education, where computer science concepts are already in use in other content areas, and how to intentionally integrate computer science into existing lessons. These courses may be valuable for parents that want to encourage computing education at home as well.
STEM/STEAM Resource #9

(K-12)
Explore opportunities relating to the five characteristics of STEM/STEAM in the state of Georgia. These indebt trainings explore STEM/STEAM resources across the K-12 grade bands.
Computer Science Resource #10

(6-12)

If you are curious about the growth of computer science in your district, school, or neighbor school, the dashboard provides a wealth of information about which courses are offered where and who is taking them.

Click to reveal the answer
The Georgia Department of Education is proud to offer STEM and STEAM Certification to recognize schools that have implemented a culture of innovation, interdisciplinary instruction, and business and community partnerships. Here is an opportunity to learn about STEM or STEAM schools in your area.
Computer Science Resource #12

(K-12)

If parents are interested in the state of computer science education at a national level and looking at how Georgia compares with other states, this report is a great reference.
Computer Science Resource #13

(K-12)
The national Computer Science Teachers Association produces reports for educators around computer science advocacy and progress. Many of these reports would be interesting to other stakeholders like parents as well.
STEM/STEAM Resource #14

(K-12)
Receive upcoming STEM/STEAM events in Georgia offered by our STEM or STEAM certified schools and statewide businesses/industry and organizations.
Constellations is a center focused on increasing equity in computing. The Constellations creed is for every child to have access to quality computer science education. What so many people don’t know is that the ability to think computationally doesn’t just have to be taught in a classroom. You can help your child think critically and learn basic computer science concepts by integrating activities or questions into your daily routine.
STEM Resource #16

(K-12)
Explore campus and community STEM outreach, k-12 learning resources, innovation, events, opportunities, and tools for k-12 education at Georgia Tech.
Computer Science Resource #17

There are several computer science courses that count for science or foreign language graduation credit for students in Georgia. Check out the FAQ to see which courses count and how to use them.
The National Security Agency has several internships and work-study programs for high school students. These opportunities are targeted at a variety of types of students including computer science students, STEM students, and students with a strong foreign language focus.
There are several free, self-paced curricula for learning computer science geared towards the novice learner. These courses would be useful for parents and self-motivated students. There are also others that are not free but low cost.
STEM Resource #20

(K-12)
TeachEngineering is a digital library comprised of standards-aligned engineering curricula for K-12 educators to make applied science and math come alive through engineering design.
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Resource Link #1

GPB Gasha Go Games

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Click the frog to go back to the board.

Resource Link #2

GPB CS Advocacy Videos

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Resource Link #3

Interland

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Resource Link #4

TeachRock STEAM

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Resource Link #5

PBS Scigirls

Click to go back to the question
Resource Link #6

Computer Science
Education Law

Click to go back to the question
Resource Link #7

STEM/STEAM MicroTours

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Integrated Computing Courses
Resource Link #9

STEM/STEAM Trainings

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Resource Link #10

2021 Computer Science Data Dashboard

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Resource Link #11

STEM/STEAM Certified Schools
Resource Link #12

State of CS Report

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Click the frog to go back to the board.

Resource Link #13

CSTA Reports

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Resource Link #14

STEM/STEAM Listserv

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Click the frog to go back to the board.

Resource Link #15

Constellations Center for Equity in Computing

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Resource Link #16

Center for Education Integrating Science, Mathematics, and Computing (CEISMC)

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Resource Link #17

Computer Science as a graduation credit

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Resource Link #18

NSA Cyber Scholarships
Resource Link #19

Free Curricula
Khan Academy, Code.org
For more options, please explore the CS4GA and CS4All websites

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Resource Link #20

Teach Engineering

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Credits.

Game created by SlidesMania