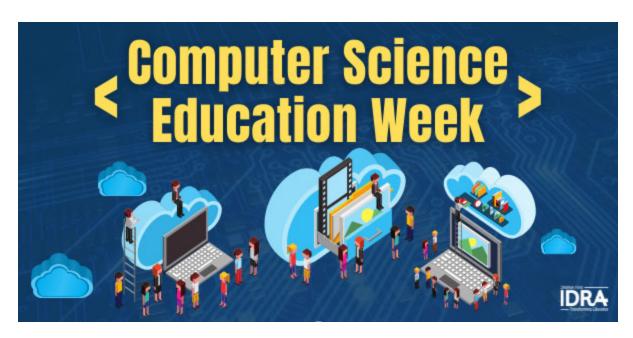
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Computer Science Education Week is an annual call to action to inspire K-12 students to learn computer science, advocate for equity, and celebrate the contributions of students, teachers and partners to the field.

Computer science is about logic, problem solving and creativity.

It teaches students how to think differently about problems they are trying to solve in any context, which is important for all students.

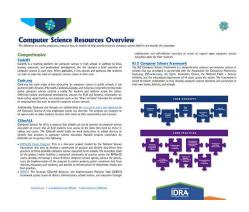
Every student in every school should have the opportunity to learn computer science!

See our infographic below on the state of computer science education today.

Check out other resources and steps you can take this week!

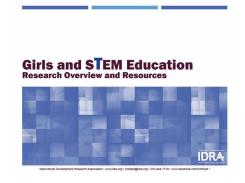


Resource eBooks



eBook: Computer Science Resources Overview

Lists guides, programs, resource lists, or models to help schools integrate computer science both in and outside the classroom.



eBook: Girls and STEM Education

Provides statistics, initiatives and organizations encouraging STEM, literature on how to support these promising students, and resources.

Key Resource Websites

The **CS Ed Week website** has virtual events this week along with teaching resources and profiles of computer science heroes.

Code.org is a nonprofit dedicated to expanding access to computer science in schools and increasing participation by young women and students from other underrepresented groups. It provides K-12 computer science curriculum and created the annual Hour of Code campaign that takes place during Computer Science Education Week.



IDRA Developing Curriculum for Eighth Graders to Become Software Designers

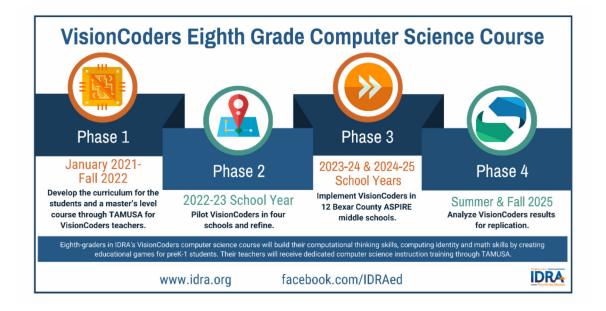
San Antonio middle school students who are in at-risk situations will become the next generation of software coders through an innovative project called VisionCoders™, launched by IDRA and Texas A&M University-San Antonio.

We are designing an eighth-grade computer science course in which the VisionCoders students will create educational games for Pre-K to first grade students. The project will impact over 1,400 students in 12 schools in the seven Bexar County school districts that comprise the



ASPIRE network. A&M-San Antonio founded that network in 2019 to accelerate locally-driven innovation and improve academic achievement for high-need students.

The project was kick-started by a \$3.89 million, five-year Education, Innovation and Research grant from the U.S. Department of Education.





More Good Stuff!

The latest research report on the status of computer science: 2021 State of Computer Science Education: Accelerating Action Through Advocacy

Publications on diversifying computer science

Resources to aid school systems in strategically planning for computer science education:

- The SCRIPT: Strategic CSforALL Planning Tool for School Districts
- Expanding Computing Education Pathways: State Summit Toolkit
- Code.org: State Computer Science Planning Toolkit
- Computer Science Teachers Association: Standards for CS Teachers

Take a Break & Learn to Code

- Take a Code Break
- Get Creative with Coding!
- Youth Code Jam Spurs Give Coding Camps

Order these STEM-CS Kits for Your Child or Classroom

- Code

- Black Wall Street Kids
- CIAS Game Development

Hear What Students Have to Say

Six students spoke before a large crowd of educators and industry leaders at the STEM Learning Ecosystems Community of Practice Convening in March 2020. And they didn't hold back!





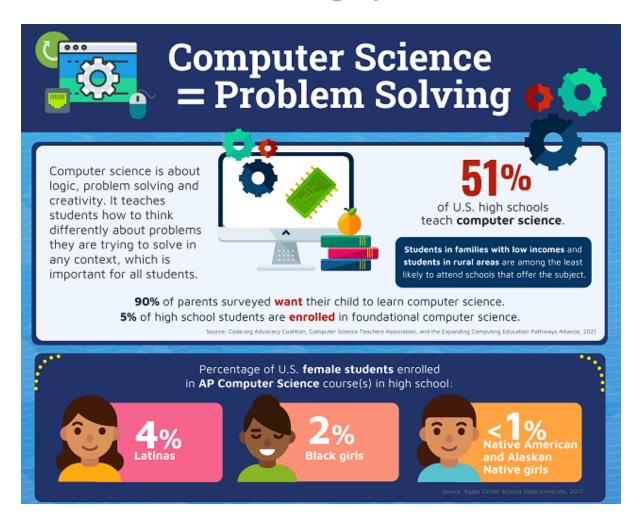




Watch Students' STEM Talk Videos



New Infographic



Computing jobs are the #1 source of new wages

in the United States.

These are the fastest-growing, highest-paying, most in-demand jobs. But women only make up a quarter of that workforce.

AP Computer Science in high school are 10 times more likely to major in it in college.

Black and Latino students are 7 times more likely.

Schools are less likely to offer computer science if more than half of their student population is economically disadvantaged.



There are computing job openings across all industries and in every state.

These jobs are projected to grow at twice the rate of all other jobs.

Computer science helps students develop:

- creativity,
- mathematical abilities and skills.
- metacognition,
- reasoning skills, &
- improvements in reading, writing, mathematics, and science test scores.

Increasingly, computer science is recognized as a core literacy for students, alongside reading, writing, and mathematics.



The STEM problem is in computer science.

Source: Code.org, 2021

of all new STEM jobs are in computing

of STEM graduates are in computer science

What to do about it?

Dabble in some coding.

Have fun! No pressure! See our eBooks for resources and ideas.



Encourage students.

Give students opportunities to explore computer science projects.

Introduce them to role models and the many different careers that

https://idra.news/CStools

Advocate for computer science and coding in your schools.

Young students can start learning the basics in elementary school. Teachers can integrate it into their lessons.

Middle and high schools need resources to train teachers and support to not just offer computer science but to encourage students to take it.

IDRA's VisionCoders™ computer science course will serve 1,400 eighth graders

In partnership with Texas A&M University-San Antonio, IDRA is developing a new computer science course and teacher training in 12 schools. Middle school students who are in at-risk situations will become software designers who create educational games for young students. This field-initiated, research-based program is funded by the U.S. Department of Education.



www.idra.org/services/idra-visioncoders

The Intercultural Development Research Association is an independent, non-profit organization. Our mission is to achieve equal educational opportunity for every child through strong public schools that prepare all students to access and succeed in college.

December 2021

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