



# Connecting the Dots

Preparing and Building the  
Future of Computer Science  
Education in Your District

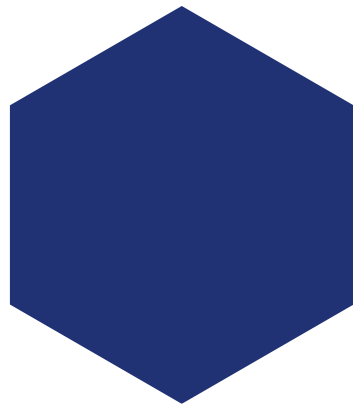


## Please Sign In

Please scan the QR code on the screen to access the sign-in form.

**FOIL Fall Conference 2024-  
Computer Science Check In**





# Welcome and Session Overview

# Icon Guide



Denotes  
opportunity  
for writing in  
Participant  
Guide.



Denotes  
opportunity  
for discussion.



Denotes  
opportunity  
for engaged  
activity.



Denotes  
opportunity  
for the use of  
technology to  
enhance  
learning.

## Agenda

- Welcome and Introduction
- The Value of Computer Science Education
- Overview of Funding Opportunities
- Computer Science Courses Overview

# Session Objectives

## 1. Understand the Impact

Participants will identify how computer science education contributes to improved student outcomes, including academic performance and career readiness.

## 3. Understand Funding Opportunities

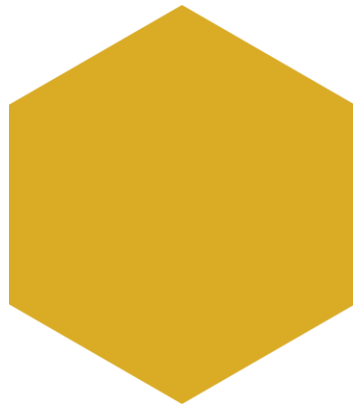
Participants will gain a comprehensive understanding of how to utilize grant funds, with a focus on Section (s.) 1007.2616, Florida Statutes (F.S.).

## 2. Recognize Benefits

Participants will articulate the benefits of computer science education, such as enhanced problem-solving skills and increased career opportunities in high-demand fields.

## 4. Discuss Implementation

Participants will engage in discussions on how to leverage the benefits of computer science education to address district-specific challenges and opportunities.



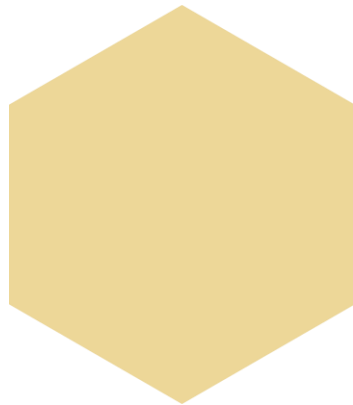
# The Value of Computer Science (CS) Education

## Why CS Education Matters

- Empowering Future Innovators:
  - CS equips students with critical thinking, problem-solving and technical skills needed in today's digital world.
- High-Demand Careers:
  - CS education directly addresses workforce gaps and boosts career readiness.







# CS Course Enrollment

# CS Education Enrollment Predictions

Directions:

1. Read the information on the following slides.
2. Make your prediction by moving to the left or right side of the room.
3. Find a partner and discuss your choice.

# CS Education Enrollment Predictions

## Left

Move to the left side of the room if you think the total number of students enrolled in computer science courses in Florida is **greater** than 200,000.

## Right

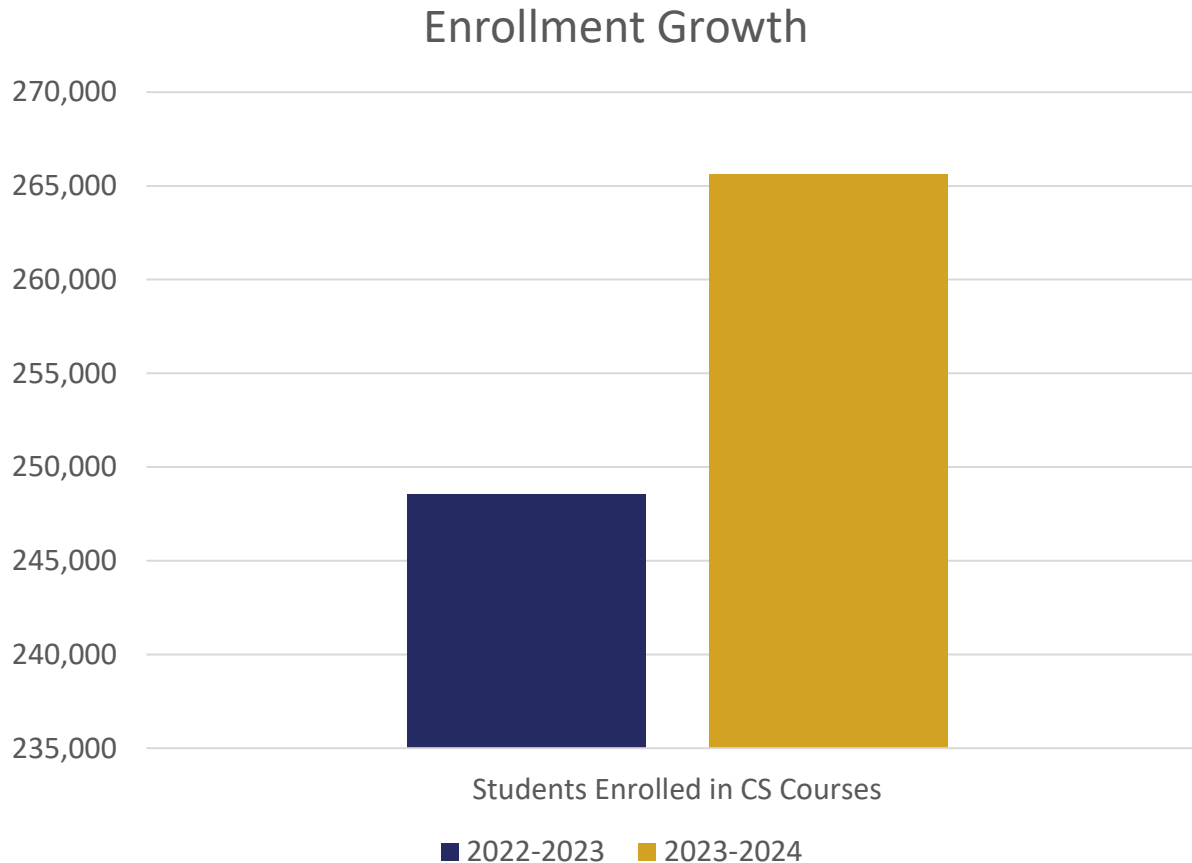
Move to the right side of the room if you think the total number of students enrolled in computer science courses in Florida is **less than or equal to** 200,000.



## CS Student Enrollment Growth

- In the 2022-2023 academic year, there were 248,544 students enrolled in CS courses.
- In the 2023-2024 academic year, there were 265,639 students enrolled in CS courses.
- That is 6.9% growth.

# CS Student Enrollment Growth



# CS Education Enrollment Predictions

## Left

Move to the left side of the room if you think there are more students enrolled in computer science courses in **Grades K-5**.

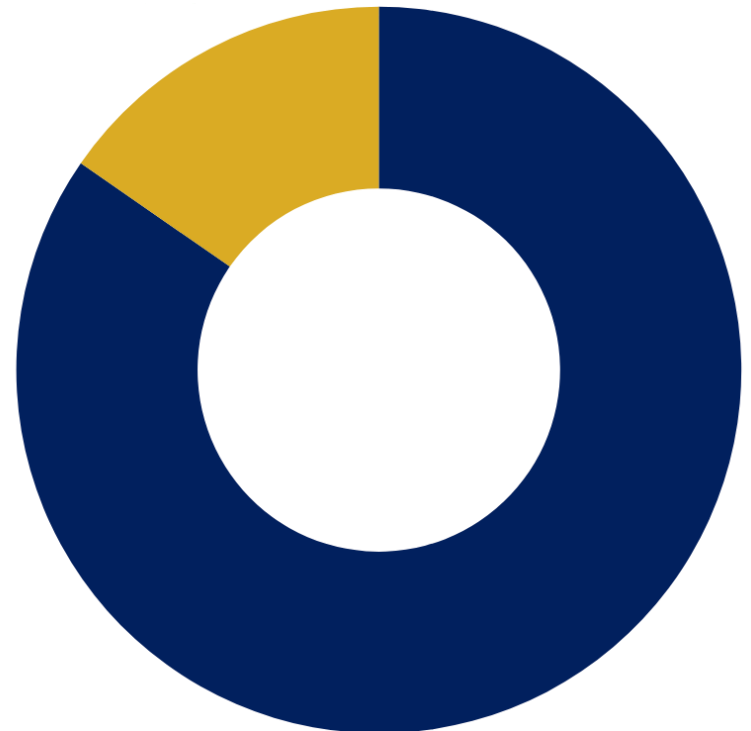
## Right

Move to the right side of the room if you think there are more students enrolled in **Grades 6-12**.



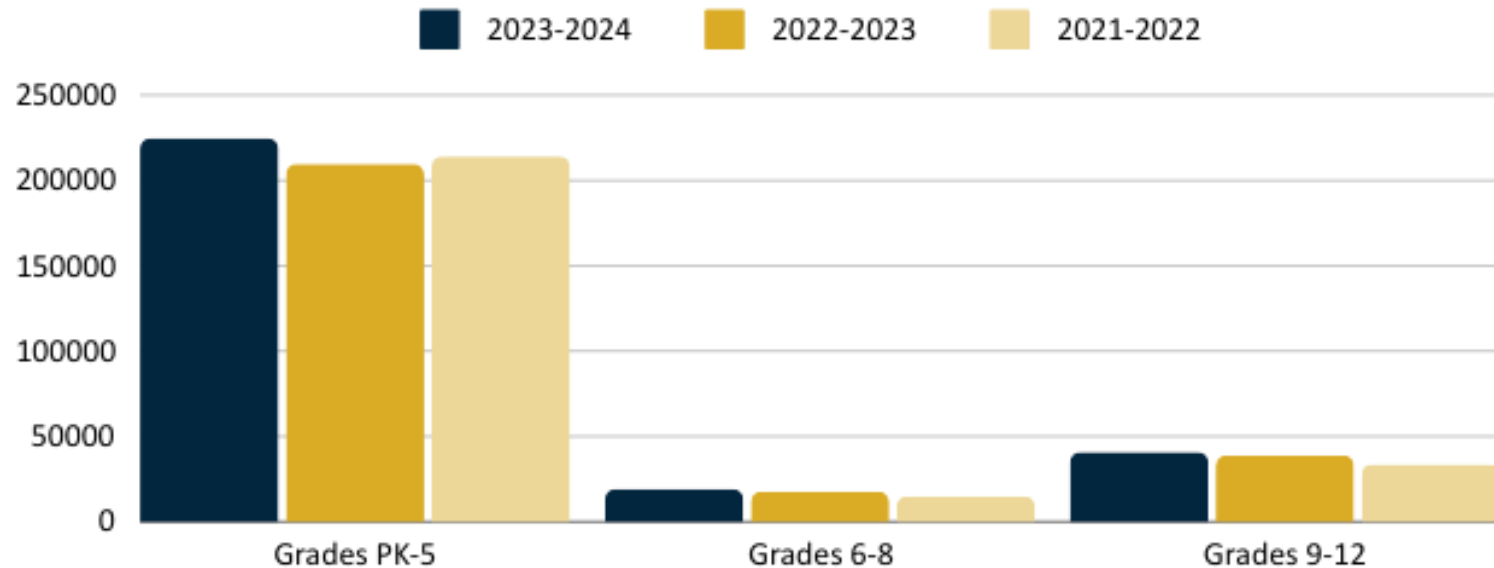
## CS Student Enrollment

- Grades 6-12: **40,797** students
  - 15.4% of CS students
- Grades K-5: **244,842** students
  - 84.6% of CS students



## CS Student Enrollment

- This graph illustrates the distribution of CS enrollment across different grade levels (PK-5, 6-8, 9-12) over three academic years: 2021-2022, 2022-2023 and 2023-2024.





## Know Your Data

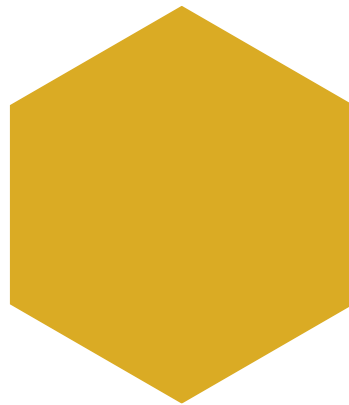
- Access the Data:
  - Go to <https://edudata.fldoe.org/AdvancedReports.html>.
  - Select Your District:
    - Navigate to the Computer Education section.
    - Choose your district to view the latest enrollment data and trends in CS education.



## Discussion

- After reviewing the data:
  - What did you find surprising or interesting about your district's data?
  - How does your district compare to state averages or neighboring districts?
  - What strategies could help increase CS participation in your district?





# Updated CS Courses

## Updated CS Courses

- The new courses are designed to align with new standards.
- The new courses are designed to provide students with foundational and advanced knowledge in CS; fostering critical thinking, creativity and real-world problem-solving skills.
- Each course is tailored to specific grade levels or a grade band and connects to other content areas like math and science.

## Grade K-5 CS Courses

- Kindergarten Foundations of Computer Science
- Grade 1 Foundations of Computer Science
- Grade 2 Foundations of Computer Science
- Grade 3 Foundations of Computer Science
- Grade 4 Foundations of Computer Science
- Grade 5 Foundations of Computer Science
- 3-5 Unplugged Computer Science

## Grade 6-8 CS Courses

- M/J Grade 6 Digital Discoveries
- M/J Grade 7 Digital Discoveries
- M/J Grade 8 Digital Discoveries
- M/J Navigating Technology: Digital Literacy and Digital Citizenship
- M/J Introduction to Cybersecurity

## Grade 9-12 CS Courses

- 9-12 Conceptual Cybersecurity
- 9-12 Computer Programming Fundamentals
- 9-12 Principles of Computer Science
- 9-12 Discovering Computer Science



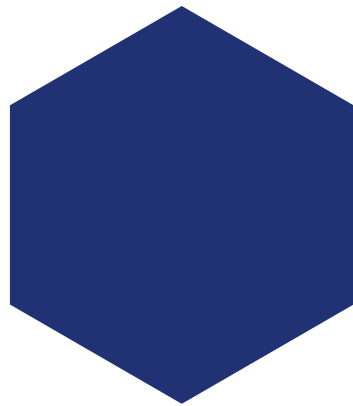
# CS Funding Opportunities Overview



# Funding Opportunities

- Key Points
  - Explore CS Grant Funding
    - CS Teacher Certification Grant
    - CS Teacher Bonus Grant
  - Connection to s. 1007.2616, F.S.
    - Review how this statute provides the framework for funding allocation and usage.





# CS Teacher Certification Grant

## CS Teacher Certification Grant

- This grant allows Florida school districts or consortium to apply for funding to support CS certification.
- The funding can be used for training classroom teachers to earn an educator certificate in CS or engage in professional learning to teach CS content.
- Funds can be allocated for training, exam fees for CS certification or professional learning.
- Allocations are determined by Full-time Equivalent (FTE) student enrollment data.
  - Charter schools are included in these allocations.

## Goals

- What do you think is the goal of this grant?
- Considerations
  - Is the goal to increase the number of certified CS teachers?
  - How might this grant support professional learning and training for current teachers in your district?
  - How can this funding help expand CS course offerings in your district?





# CS Teacher Bonus Grant

## CS Teacher Bonus Grant

- This grant provides bonuses for eligible classroom teachers in Florida who are teaching CS courses.
  - A **\$1,000 bonus** can be awarded to teachers who hold an educator certificate in CS.
    - This bonus is available for up to three years, after each year of teaching an approved CS course.
  - A **\$500 bonus** can be awarded to teachers who hold an industry certification related to an approved CS course, also for up to three years.

## Goals

- What do you think is the goal of this grant?
- Considerations
  - What impact could these bonuses have on recruiting and retaining qualified CS educators?
  - How do you think this grant could influence the quality of CS education in your district?
  - In what ways could this grant help incentivize teacher investment in CS?



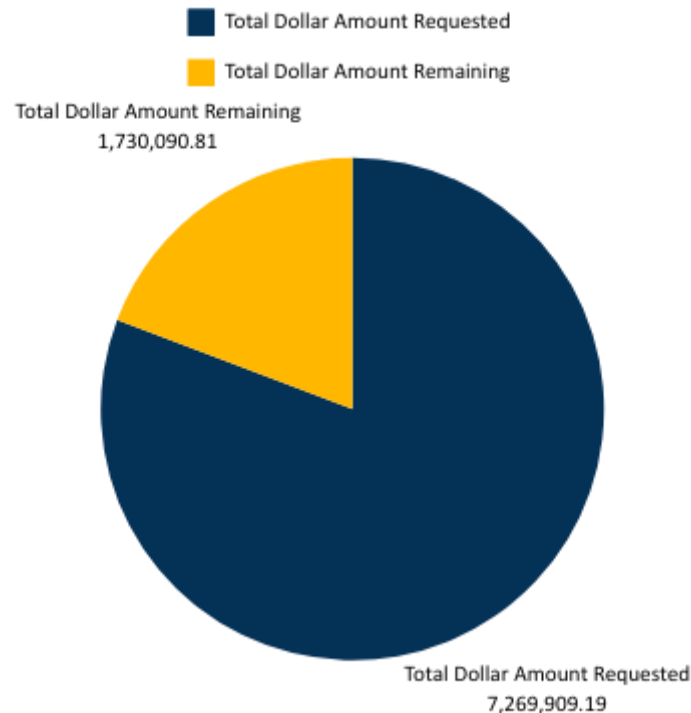


# Grant Utilization



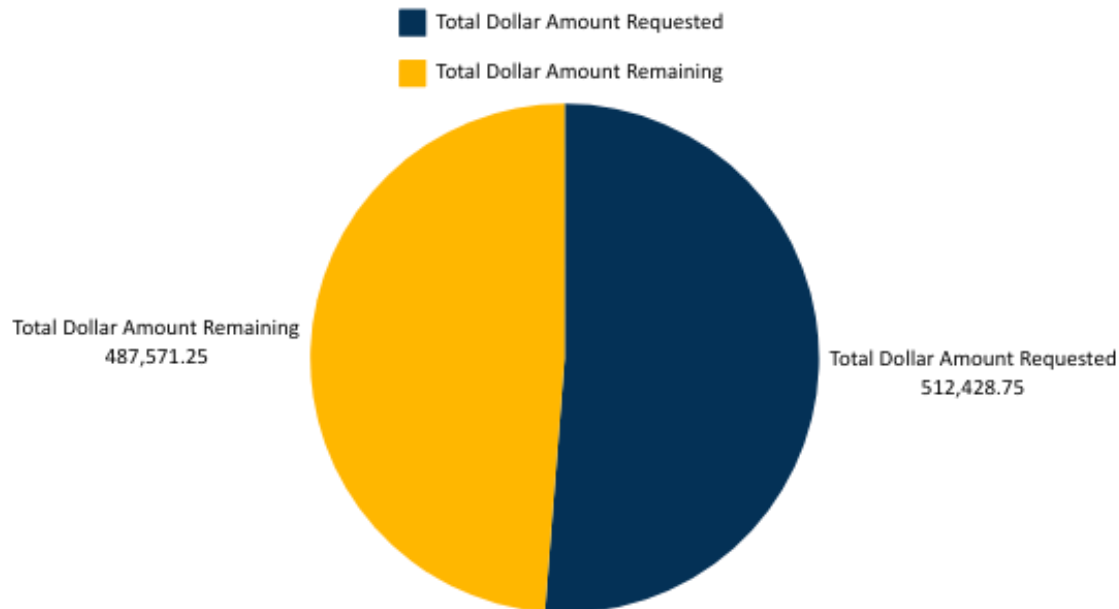
## CS Certification Grant Allocations

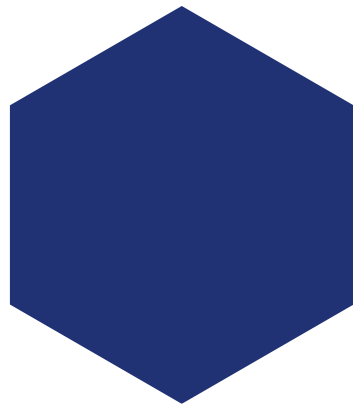
- In 2023-2024, \$9,000,000 was allocated for the computer science certification grant. Of this amount, \$7,269,909.19 was requested, leaving \$1,730,090.81 unused.



## CS Teacher Bonus Grant Allocations

- In 2023-2024, \$1,000,000 was allocated for computer science teacher bonuses. Of this amount, \$512,428.75 has been requested, leaving \$487,571.25 unused.





# CS Instructional Materials

# 2026-2027 Computer Science Adoption Timeline

- Specifications and Criteria Available: January 2025
- Adoption Process: June 2025 – July 2026
- Initial Publication List: July 31, 2026
- District Review: 2026-2027



## Computer Science Instructional Materials

- With this timeline in mind, instructional materials that are aligned with the new CS standards will be implemented in the 2027-2028 school year.
- Please email [IMStaff@fldoe.org](mailto:IMStaff@fldoe.org) with any questions regarding instructional materials.



FLORIDA DEPARTMENT OF  
**EDUCATION**  
fldoe.org

**Thank you!**

We greatly appreciate your dedication to advancing CS education in your district.

If you have any questions, please don't hesitate to ask.  
We're here to support and collaborate with you.

# Questions? Contact Us!

Bureau of Standards and Instructional Support | Office of Mathematics and Science

- Courtney Starling, Director
  - [Courtney.Starling@fldoe.org](mailto:Courtney.Starling@fldoe.org)
- Barbie Hartsfield, K-5 Mathematics Specialist
  - [Barbie.Hartsfield@fldoe.org](mailto:Barbie.Hartsfield@fldoe.org)
- Natalie Alday, 6-8 Mathematics Specialist
  - [Natalie.Alday@fldoe.org](mailto:Natalie.Alday@fldoe.org)
- Anthony Severson, 9-12 Mathematics Specialist
  - [William.Severson@fldoe.org](mailto:William.Severson@fldoe.org)
- Whitney Gaddis, K-12 Computer Science Specialist
  - [Whitney.Gaddis@fldoe.org](mailto:Whitney.Gaddis@fldoe.org)
- Steve Walker, K-12 Science Specialist
  - [Steve.Walker@fldoe.org](mailto:Steve.Walker@fldoe.org)

## We Want Your Feedback!

Access the Bureau of Standards and Instructional Support (BSIS) professional learning feedback survey using the QR code below.







[www.FLDOE.org](http://www.FLDOE.org)