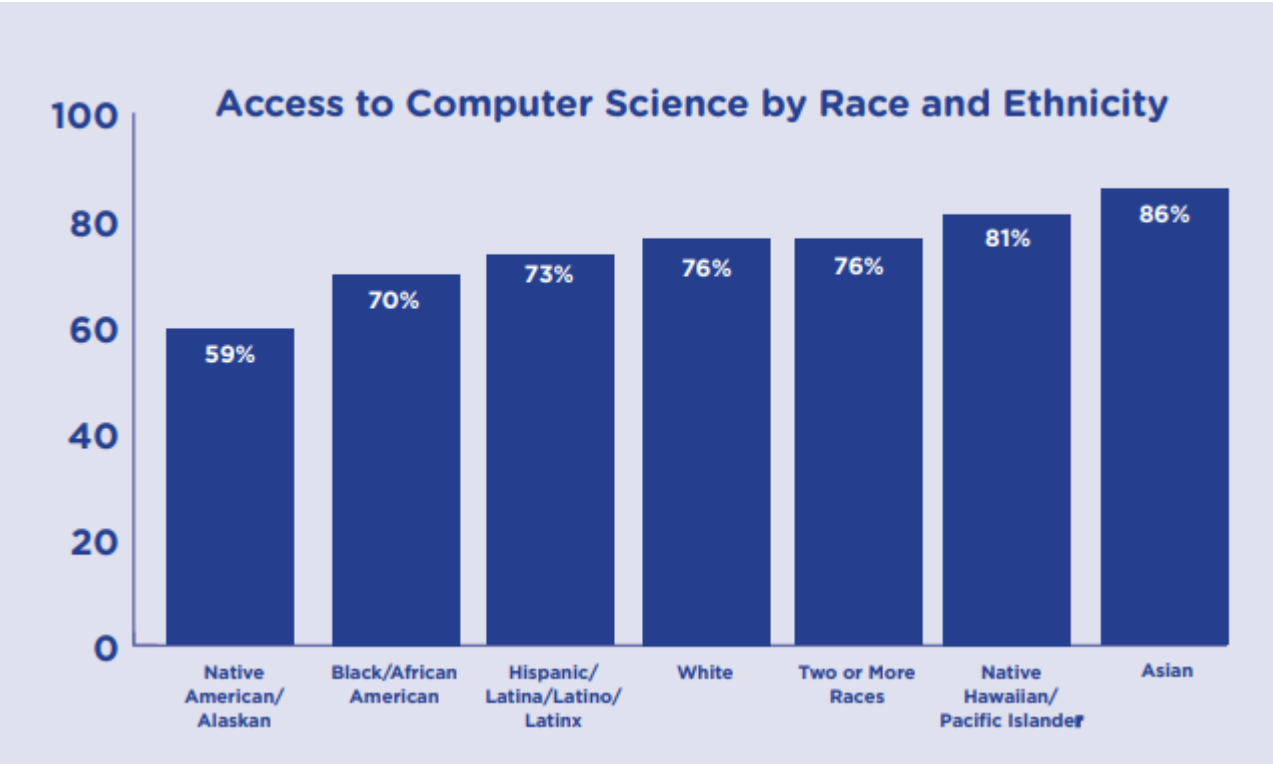
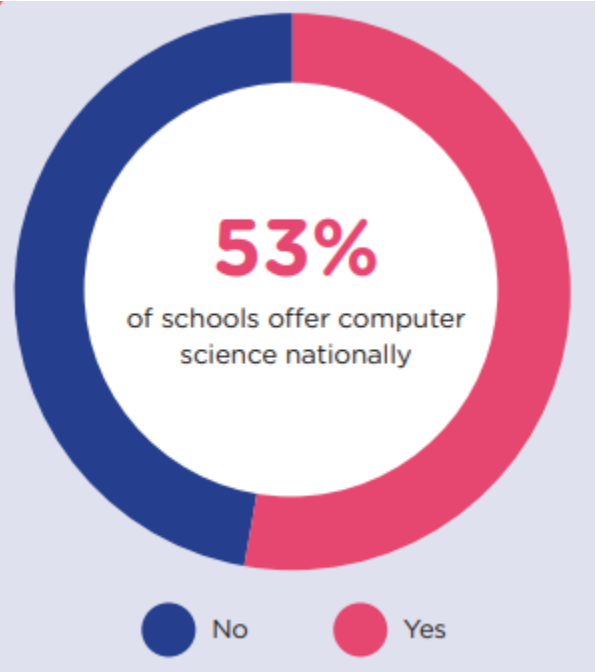




# State of Computer Science in Minnesota

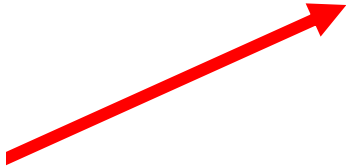
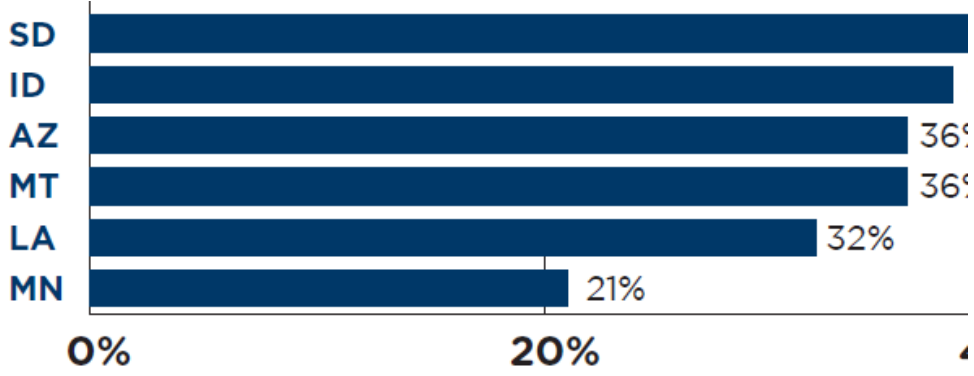
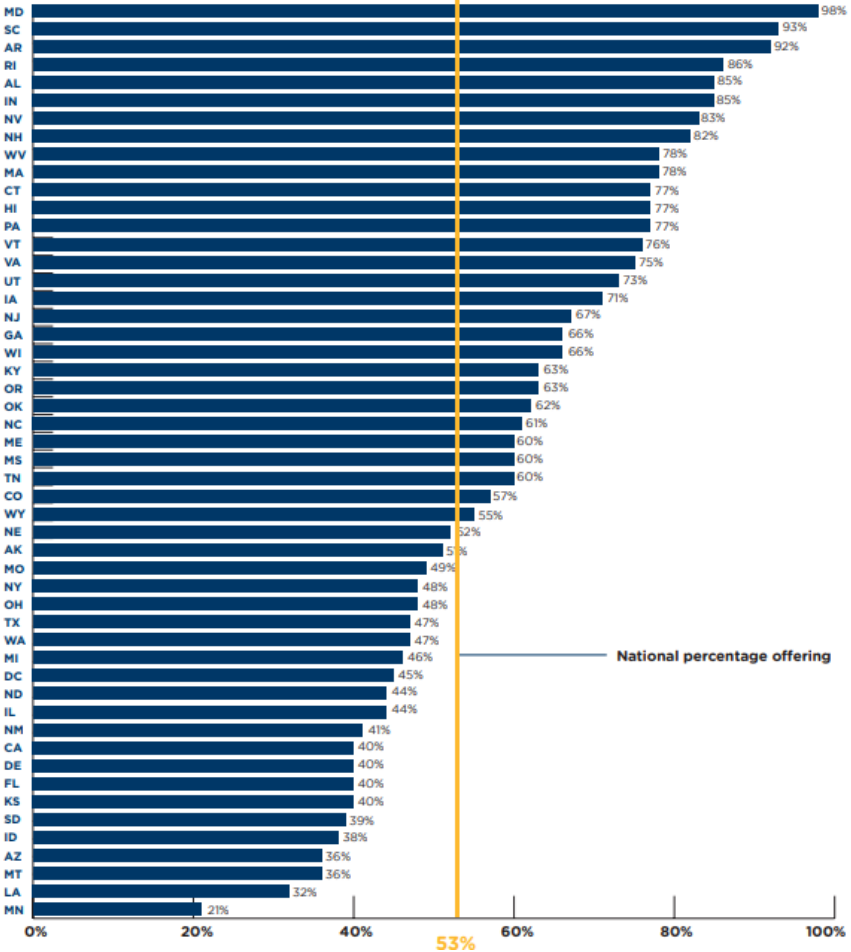
Sarah Carter | STEM/Computer Science Integration Specialist

# 2022 National State of Computer Science Education



# National Data

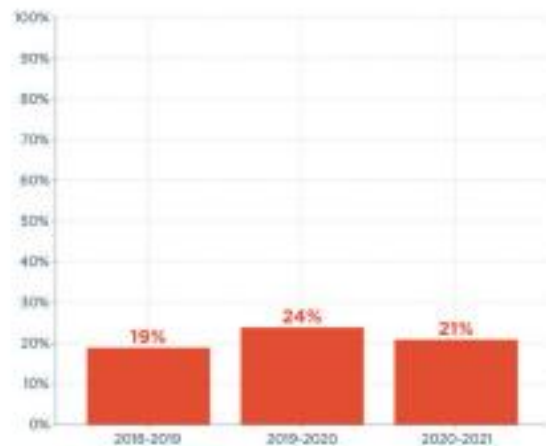
Percentage of High Schools Offering Computer Science, by State\*



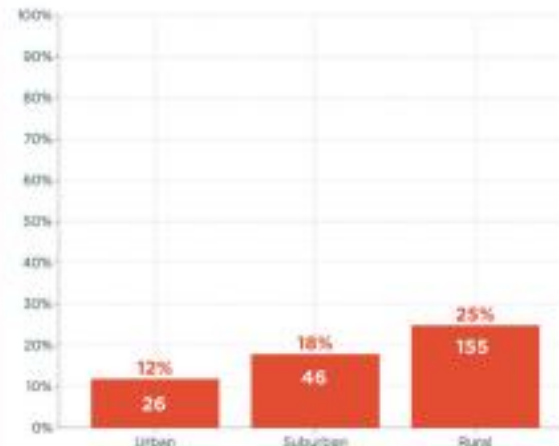
# Access to Foundational Computer Science in Minnesota

## Percentage of Public High Schools Offering Foundational Computer Science

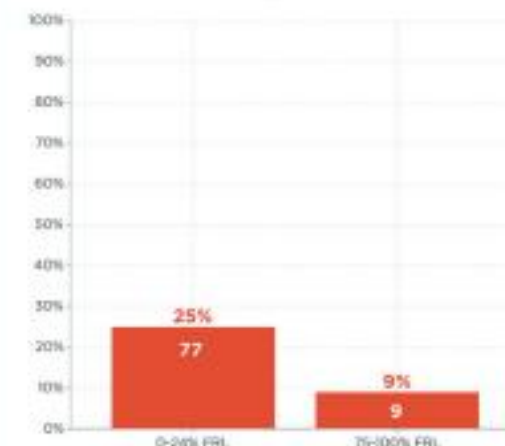
### Access by School Year



### Access by Geography

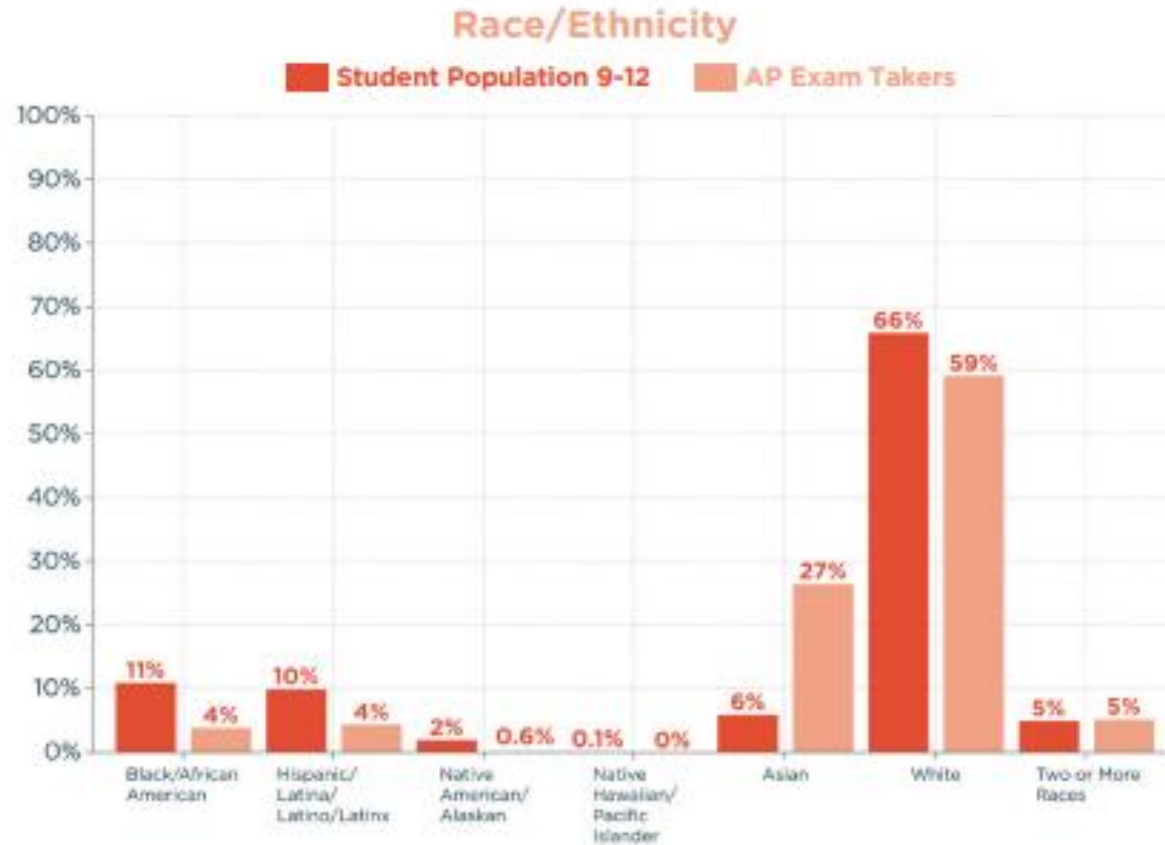


### Access by % FRL in the School



*Data provided primarily by the Department of Education and school catalogs, based on 1,100 schools with high school grades. The state reports low-income students rather than students who qualify for free and reduced-price meals. Participation data was masked at low counts.*

# Minnesota Computer Science AP Exam Takers



# Where to find the data?

- [2022 State of Computer Science Education](#)
- [Minnesota only handout](#)
- [Computer Science Access Report Data](#)

# Computer Science in Minnesota

- Computer Science in all – Computer science concepts, practices, and standards are being integrated as academic standards are revised.
- K-5 computer science education implementation varies across the state.
  - Stand-alone CS classes taught by specialists
  - Integrated into other subject areas
  - After school clubs/activities
- Secondary Implementation varies across the state.
  - Integration into other content areas, Foundational CS courses, AP classes, Robotics classes, CTE pathways, etc.

# Governor Walz Signed CS Compact Summer 2022

- [National Governor's Association Computer Science Compact](#)
  - Increasing the number of high schools offering computer science courses
  - Allocating state or territory funding to K-12 computer science education
  - Creating pathways to postsecondary success in computing and related careers
  - Providing equitable access to computer science for all students



# Governor's 2024-25 Biennial Budget Recommendations

## Computer Science Education

- Computer Science Education Task Force
  - A group made up of statewide participants that will put together a set of recommendations for increasing access to K-12 computer science education across the state.
- Grants for LEAs (districts and public charter schools)
  - These grants would be to support schools in completing the recommendations set forth by the task force

# Standards Review Process

- Beginning in 2017 computer science was identified as an important skill and each standard development committee has used the Minnesota Information and Technology Educators of Minnesota (ITEM) Standards, The K-12 Computer Science Framework, and the Computer Science Teachers Association K-12 Computer Science Standards to explore connections to their respective content area.



# Minnesota Academic Standards

- [Arts](#) –Implementation '23-'24
- [Physical Education](#) – Implementation '23-'24 (no CS integration)
- [Science](#) –Implementation '24-'25
- [English Language Arts](#) – In the rulemaking process likely implementation during '25-'26 school year.
- [Social Studies](#) – Rulemaking process has begun.
- [Mathematics](#) – Rulemaking process has begun.

# Teacher Resources in Development

- Elementary Canvas course – [Introduction to Computer Science Teaching and Integration](#)
- Secondary (6-12) Canvas course – coming in 2023
- Integration Guides (in development)
  - By grade level (K-5)
  - By content area (6-12)
  - Contents: Overview of computer science, specific connections to MN Academic Standards

# Questions?

Sarah Carter

[Sarah.carter@state.mn.us](mailto:Sarah.carter@state.mn.us)