

K-12 Computer Science Plan for Central Springs

Vision

To develop students' problem solving and critical thinking skills so they can solve real-world problems in meaningful ways. To engage students in self-directedness so they can actively participate and contribute to their community.

We can achieve our vision by incorporating the CSTA standards that include:

- Computer Literacy - the general use of computers and programs
 - Networks & the Internet
 - Computing Systems
 - Data & Analysis
 - Algorithms & Programming
 - Impacts of Computing
- Digital Citizenship- the ability to use technology appropriately, responsibly, and safely

Implementation Plan and Timeline

Item	Level	Timeline
HS Computer Science 1 & 2	HS	Fall 2022
STEM Exploratory (6th)	MS	Fall 2022
Form a CS Committee establish regular meetings (at least 4 times a year)	PK-12	Aug 2022
Invite additional members Chelsie Gibson, Dalcy Lorentzen (DONE), Michael Pettengill??, Dakota (Done)	PK-12	22-23
Attend CRAEA Computer Science Network	PK-12	22-23
Join CSTA https://iowa.csteachers.org/	PK-12	Fall 2022
Identify what standards are taught and where- CS Leadership Team	PK- 12	Fall 2022-23

Computer Science Curriculum, Pathways, Scheduling, and Sequencing

Grade Level	Curriculum/Content	Format (Standalone, Integrated, or Combination)	Standards	Timeline	Frequency
K	Code.org Scratch Jr.				
1	Code.org Scratch Jr. BeeBots				
2	Code.org Scratch Jr.				
3	Code.org Scratch Jr. Osmos	Embedded			
4					
5					
6		STEM Class Exploratory			
7		STEM Class Exploratory			
8		STEM Class Exploratory			
9- 12	Computer Science 1 and 2	Elective		Fall 2022	Semester

[Unpacking Document- Identifying Standards](#)

Computer Science Teacher Development

- PD Schedule: Code.org (Computer Science Discoveries and Principles) Spring/Summer? 2022 HS
- Existing teachers
- Utilizing the Teacher Leadership and Compensation System?

Budget

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Equitable Access

All students have access to MS and HS curriculum during the school day .

Personnel to Support Computer Science

- Computer Science Leadership Team PK-12

Partners

- CRAEA
- NIACC
- North Central STEM Council
- CSTA- Iowa
- CTE/Business Group
- Lehigh Cement

District Computer Science Point of Contact
