

WYOMING EDUCATION TRUST FUND AWARD SUMMARY 2018-2019

FREMONT #1 - "FREMONT1@CODER"

Fremont County School District #1 was awarded the Wyoming Education Trust Fund for Innovative Education in order to expand opportunities in Computer Science to preschool through eighth-grade students in the district by creating a modern K-8 computer science and computational thinking curriculum to be implemented district-wide and developing resources kits for community preschools to teach introductory computer science and STEM skills. The target populations for this program are: after school program participants, tech club participants, and all K-8th grade students. The goal for this program is to reach at least 75 percent of Fremont #1 students in either computer science and coding or computational thinking during the 2018-2019 school year.

FREMONT #24 - "SHOSHONI CODE WRANGLERS"

Fremont County School District #24 was awarded the Trust Fund Grant to create and implement a kindergarten through sixth grade Computer Science instructional program with a focus on professional development to be called "Shoshoni Code Wranglers." The goal is for the Shoshoni Code Wranglers to bring Computer Science content and performance standards to life through the utilization and learning of hydroponics, robotic gardening automation, coding and data collection and help teachers integrate cross-curricular content infused with computer science fundamentals. The overall district goal of this program is to promote meaningful instruction and targeted outcomes for both teachers and students.

JOHNSON #1 - "THE MIDDLE SPACE PROJECT"

Johnson County School District #1 was awarded the Wyoming Education Trust Fund Grant to bring more computer science opportunities to students in sixth through eighth grades in Johnson County through the creation and use of a Makerspace. The target populations for this project are students at Clear Creek Middle School in Buffalo and the students at the Kaycee School, with the target population potentially expanding to students and staff at additional schools in Johnson and Sheridan County. Through a partnership with Sheridan County School District #3, professional development offered through this program will be extended to neighboring staff to prepare them to also create a K-12 Makerspace and integrate computer science in the future.

LINCOLN #1 - "FULL STEM AHEAD"

Lincoln County School District #1 received the Trust Fund Grant in order to establish a stationary STEM Lab classroom and an Analytical Science Lab as well as create two new courses to be offered in Fall 2018 for Computer Science and Robotics. The target population for this program are students in ninth through 12th grade at Kemmerer Junior Senior High School. The labs will be created to accommodate 28 students at a time and will also have "Adobe Creative Cloud for Teams" installed which will support computer science integration with other areas and encourage collaboration and enhance student engagement.

NATRONA #1 - "COMPUTER SCIENCE AT ROOSEVELT HIGH SCHOOL"

Natrona County School District #1 was chosen as a recipient of the Wyoming Education Trust Fund Grant to create computer science opportunities for students in the district. For this project, teachers at Midwest and Roosevelt High Schools, in collaboration with a consultant in computer science education, will develop and integrate computer science modules that directly connect to content area standards. The purpose of this project is to pilot a program that can indicate the effectiveness of utilizing classroom teachers of core content areas to introduce coding principles to higher risk and more diverse populations in small school environments, thus increasing the diversity of students exposed to introductory concepts by embedding those skills in content rich format in subject specific areas.

PLATTE #1 - "CTACS-COMPUTATIONAL THINKING AND COMPUTER SCIENCE"

Platte County School District #1 was awarded the Wyoming Education Trust Fund Grant in 2018 to integrate Computational Thinking and Computer Science (CTaCS) into third through eighth grades beginning in the Fall of 2018. The district has chosen to follow the Code.org curriculum and make changes and adjustments as needed to fit the specific needs of their district. One teacher with extensive computer science experience will be teaching all classes in grades 3-8 and will develop a full curriculum over the next two to three years. Students in third through fifth grades will receive computer science as a specials class and students in sixth through eighth grades will be offered computer science as an elective course. With this program, each grade level will continue to scaffold the knowledge gained in prior years with an increased focus on the use of real-life programs and languages, application development, and potential CS careers.

SUBLETTE #9 - "SCSD #9 CYBER ACADEMY"

Sublette County School District #9 was chosen as a recipient of the Trust Fund Grant in 2018 to create a "Cyber Academy" in the district. The target population for the grant is for students in fifth through eighth grades, with a focus on increasing availability to computer science opportunities to students of underrepresented groups including low socioeconomic status and female students. The program aims to expose students to four integrated threads within the context of computer science to support and enrich their education through involvement in this after school program. The goal is to increase the likelihood that program participants will continue to take courses or elective in computer science throughout their education as a result of their participation in this program.