Statewide Digital Literacy and Computer Science Innovation

The Oregon Digital Literacy 2.0 Report
Draft Executive Summary of 2018 through 2019

The Oregon Digital Literacy Grant provided an opportunity for Oregon schools to expand their computer science offerings through two pathways, the SuperQuest summer educator trainings and Fall and Spring OCSTA Conferences. To achieve this goal, the Oregon Computer Science Teachers Association (OCSTA) conducted Fall and Spring Conferences, three-day SuperQuest workshops, and offered day long onsite trainings throughout the past 18 months for teachers.

Key findings:

- 564 unique educators participated in the summer 2018 & 2019 SuperQuest trainings.
- Based on data provided by teachers, it is estimated that the SuperQuest Summer trainings (2018 & 2019) will benefit approximately 20,000 K-12 students in the coming years.
- There has been a 17% increase in elementary school teachers (K-5) participating in SuperQuest trainings from 2018-2019, with the largest increase (58%) occurring in K-2.
- Summer SuperQuest trainings were held in 29 of Oregon's 36 counties.
- The Computer Science Teachers Association Fall and Spring Conferences had over 300 participants from a wide range of sectors: high school educators, university and college faculty and administrators, industry experts and government representatives.
- SuperQuest offered 6 trainings statewide (Wilsonville, Salem, Newport, The Dalles, Eugene, and Ontario) in summer 2019 and 8 trainings (Wilsonville, Salem, Newport, The Dalles, Eugene, Ontario, Southern Oregon, and Redmond) in Summer 2018.
- Ninety-seven percent of educators found the SuperQuest training workshops extremely or very valuable.
- The majority, 57% were first time attendees at a SuperQuest workshop.
- Prior to the SuperQuest trainings, 76% of attendees reported their subject knowledge level as *not at all knowledgeable* or *slightly knowledgeable*, after the training that percentage increased to 93% reporting feeling *very or moderately knowledgeable*.
- Prior to the SuperQuest trainings, 10% of attendees reported feeling *completely to very confident* in their ability to teach the subject content, that percentage increased to 61% feeling *completely to very confident* after the 3-day training.
- The vast majority, 97%, of SuperQuest attendees agreed or strongly agreed that the SuperQuest workshop met their expectations.
- 100% of SuperQuest attendees indicated they would attend another SuperQuest training.
- Using $200 per day as a sub cost for a teacher to attend training the grant produced Professional Development worth over $350,000 as a direct benefit to schools that they did not pay for!
- Additional benefits included curriculum development, standards development, a playbook to help with district guidance, PD delivered during the school day (Pop Up's) and tremendous encouragement for the teachers in the field as they collaborated with those who have developed the best practices in Oregon.

In Oregon there are over 300 high schools. There are less than 10 Computer Science (CS) teachers that teach CS as their entire teaching load. Only 90 high schools offer at least one CS course.