Resources for Teaching Computer Science

The following list provides a number of Computer Science learning opportunities for schools. This is not an exhaustive list.

K-8

• KELP-CS – program out of UCSB that has modules for Grades 4 and 5 to introduce students to computing concepts. Grade 6 under development. https://discover.cs.ucsb.edu/research/depict/kelpcs/
• Hopscotch – Coding app for kids (iPads) -- http://www.gethopscotch.com/
• Scratch – Online program out of M.I.T. that introduces students to computer programming via a platform that allows them to make animations, stories, games, and other projects (upper elementary and junior high levels) -- http://scratch.mit.edu/
• CS Unplugged – resources to teach CS concepts without using computers -- http://csunplugged.org/
• Lego Mindstorms robots -- http://www.lego.com/en-us/mindstorms/?domainredir=mindstorms.lego.com
• CS-First – Google supported program that introduces students to computer science using Scratch in an after-school online format. Modules on Game Design and Music and Sound with others under development. Can also be integrated in classes. http://www.cs-first.com/
• Creative Computing Curriculum – a 6 unit curriculum to teach Scratch -- http://scratched.gse.harvard.edu/guide/
• MyCS – Middle Years Computer Science course for junior high school level students out of Harvey Mudd College -- https://www.cs.hmc.edu/MyCS/

9-12

• Exploring Computer Science – introductory g credit course to provide students, particularly those without much of a background in CS an overview of the field -- http://www.exploringcs.org/
• CS Principles – new College Board designed AP CS course -- http://apcspinciples.org/
• Game Design, Web Development, Programming, App Development, Computational Art, Robotics, and AP CS courses
• UC Davis C-STEM courses -- http://c-stem.ucdavis.edu/ (Grades 4-12)

For additional questions or to collaborate on how you might bring CS learning opportunities to your school please connect with David Bernier – dbernier@sbceo.org (805) 964-4712 x5348