

**COMPUTER SCIENCE 3-5**  
**Course Description 2018 - 2019**

**Course Title:** Computer Science 3-5  
**Grade Level:** 3-5 or instructor approval  
**Prerequisites:** None  
**Length of Course:** One Year  
**Meets/Instructor:** Mondays, 10:30 - Noon  
Canyon Oak  
Jalynne Redman  
email: jredman@ccoe.k12.ca.us

**Requirements;**

- 1) Chromebook;
- 2) Signed Tech Waiver - **REQUIRED**
- 3) Internet Access - most assignments are online

**INTRODUCTION:**

This workshop will use a variety of computer applications to introduce students to the Four “C’s” of Learning, i.e.:

- Creativity
- Communication
- Collaboration
- Critical Thinking

**LEARNING OBJECTIVES:**

- 1) Creative design through the use of FableVision Learning’s software program for computer assisted design (CAD)

- 2) Block coding with academic instructional projects in English, Math, Science and Social Studies via the software program “Tynker”**
- 3) Writing and communication skills using an online blogging format Kidblog**
- 4) Presentation techniques including Google slideshow and other infographic software**

**Students will enjoy a variety of grade appropriate design projects which will culminate in a school-wide Fall and Spring Design Showcase. Suggested student projects will include:**

- a) Exploring and understanding templates and design functions**
- b) Exploring and creating greeting cards & cartoon characters**
- c) Designing, creating and building a balloon powered car**
- d) Creating an explosion box**
- e) Understanding architecture to build one or more buildings for a classroom model of a city**
- f) Personal Choice projects**
- g) Computer programming projects in Earth Science, Life Science, English, Math and Social Studies (grade level 3-5).**

#### **COURSE OUTLINE:**

**The workshop will encompass approximately 6 units. Unit time will be inherently flexible due to project based learning nature of the workshop and use of personalized learning plans. Parents are encouraged to attend/assist: Each unit will have four components:**

- Project overview, design and creation**
- Project prototyping and testing**
- Project blog/presentation**
- Academic based based coding activity**