

COMPUTER SCIENCE 6-8
Course Description 2018 - 2019

Course Title: Computer Science 6-8
Grade Level: 6-8 or instructor approval
Prerequisites: None
Length of Course: One Year
Meets/Instructor: Mondays, 2:00 p.m. - 3:30 p.m.
Canyon Oak
Jalynne Redman
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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 6-8)**

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**