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RELATED ARTS, MEDIA SPECIALIST, CREATIVE CODING

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Creative Coding: An 8th Grade Cycle Course

Creative Coding is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. The course is aligned to the Computer Science Teacher Association (CSTA) K-12 Computer Science Standards (Revised 2017) as well as the New Jersey Computer Science and Design Thinking Student Learning Standards (2020).

The course is designed to be accessible and engaging for all students, regardless of background or prior experience. It provides students opportunities to engage with culturally and personally relevant topics in a wide variety of contexts and aims to show all students that knowledge of computer science and programming provides powerful opportunities for their future.

Students will learn how to use JavaScript to program shapes, animations, variables, loops, conditionals, functions, and more. Students will extend their knowledge of these concepts to create a variety of interactive computer programs, including greeting cards, joke scenes, and video games. Additionally, students will develop an understanding of fundamental computer science concepts through various learning activities. These concepts are identified in the New Jersey Computer Science and Design Thinking Student Learning Standards, and will furnish students with knowledge and skills that will give them a competitive edge in higher education and the workforce.

Additionally, this curriculum integrates the skills, knowledge, and expertise of 21st Century Learning as identified by the Partnership for 21st Century Skills. This process ensures that students are prepared for success in today's challenging environment. In this course, students will engage in one of the most important skills for marketability in the future workforce -- computer programming. Students will learn about a variety of career fields in which computer programming is either essential and/or highly desirable. Learning computer programming skills is interdisciplinary, overlapping and reinforcing mathematical concepts such as graphing coordinates and variables. Using the Code.org website, Chromebooks, and the Google Suite, students will create computer programs that give them a sense of the work professional computer programmers use to develop websites, video games, mobile apps, and software.

UNITS OF STUDY

Computers & Networks

Technology Careers

Software Development

COURSE REQUIREMENTS

Come to class prepared
Participate in class activities
Complete assignments
Ask for help

MATERIALS LIST

Charged Chromebook
Assignment Pad
Pen or Pencil

Missed Class Policy

8th graders will periodically miss a class period for chorus or instrumental class. It is a student's responsibility to review materials and assignments they miss. The materials taught in every Creative Coding class will be posted online in the Google Classroom. Students will be given two days to make up any work from the class they missed, giving them the opportunity to review the material with me and ask any questions.

TIME TABLE FOR MAKEUP WORK

Missed Monday = Hand in Wednesday
Missed Tuesday = Hand in Thursday
Missed Wednesday = Hand in Friday
Missed Thursday = Hand in Monday
Missed Friday = Hand in Tuesday

A GREAT RESOURCE FOR FAMILIES

[Common Sense Media](#)

Information for parents about social media etiquette, Internet safety, cyberbullying, and book/movie recommendations based on age-appropriateness.

ACCESS THE MEDIA CENTER ONLINE

[Middle School Media Center Website](#)

[High School Media Center Website](#)

Middle School Cycles Course Information

[8th Grade Cycles](#)

Methods of Contact
WHS Main Line: 201-652-9000 Voicemail - 5019 <u>hidalgoe@waldwickschools.org</u>