

Winter Lakes High School 2021 - 2022



ONLINE CODING

GRADES 8 -12

SYLLABUS - 2021-22

Instructor

Amy Holbrook

aholbrook@csd8.info

(541)824-0115 ext.7003

COURSE DESCRIPTION

The Online Coding Grades 8 -12 class allows students to develop computer coding logic and skills, using the Tynker platform (<https://www.tynker.com>). Students sign in by clicking on the join with Google option. Students are enrolled under their school Google account.

Students are assigned to a Tynker course, based on background knowledge and interest. Students new to programming work on Tynker's Programming 301, which uses Blockly programming (click and drag). Students interested in learning HTML take Web Development 101, and those interested in learning a programming language take Python 101 or JavaScript 101. Each lesson in a course requires the completion of a number of coding activities.

QUARKS

Students can work at their own pace.

Students are encouraged to **complete 1 lesson** each week to earn an average of **3-4 quarks/week**. (Note: Each lesson is composed of several activities. Students can monitor their progress on the Tynker Program. Quarks are recorded on the student's progress report as each lesson is completed.)

One trimester of elective credit is granted (to 9-12 graders) after a student earns **50 quarks**.

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Course	Quarks Earned
Programming 301	3 quarks/lesson
Web Development 101	4 quarks/lesson
JavaScript 101 or Python 101	4 quarks/lesson

GRADES

Online Coding grades are Pass/No Pass.

ASSESSMENT

Students demonstrate their learning by completing lessons on Tynker Platform. The Tynker Platform gives instant feedback to students. Lessons are not considered complete by Tynker until each activity in the lesson is successfully completed.

STANDARDS

All Courses:

CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.

CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.

CCSS.MATH.PRACTICE.MP4 Model with mathematics.

JavaScript 101 and Python 101 additional standards:

CCSS.MATH.CONTENT.HSN.Q.A.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.

CCSS.MATH.CONTENT.HSN.Q.A.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

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