



QCSD Office of Teaching and Learning

Since 2015-16, elementary students all receive computer science as part of their Digital Literacy Course in grades 1-5 in all buildings. The digital literacy course is built upon 4 key areas: Digital Citizenship (through the use of Common Sense Media Lesson Plans) , Computer Applications (through Google Apps for Education, Developing and Re-inforcing Typing Skills (through the use of typing.com) and Computer Science (through code.org).

As a result of the 6 day cycle, and approximately 45 minutes of instructional time, students can expect to be with their digital literacy teacher 30 times a year (for 1,350 minutes a year, or 6,750 minutes over the course of their elementary career.)

The beginning of each class provides each student 10-15 minutes to learn and improve upon typing abilities beginning in second grade.

In first grade, students spend a majority of their time learning computer application log-ins (canvas, google apps for education) as well as participating in digital literacy and safety lessons.

In second grade, students spend 20 out of 30 lessons engaged in Code.org Level 1. The remaining 10 lessons are digital literacy lessons.

In third grade, students spend their year engaged in digital literacy lessons combined with computer applications focused around word processing and presentation skills.

In fourth grade, students spend 20 out of 30 lessons engaged in Code.org Level 2. The remaining 10 lessons are digital literacy lessons.

In fifth grade, students spend 20 out of 30 lessons engaged in Code.org Level 3. The remaining 10 lessons are digital literacy lessons. See below.

In relation:

Lessons (30 lessons a year)

	Computer Science	Computer Applications	Digital Literacy	Typing Skills
Grade 1	0	10	20	-
Grade 2	20	0	10	-
Grade 3	0	15	15	-
Grade 4	20	5	5	-
Grade 5	20	5	5	-
TOTAL	60	35	55	-
% of Instructional Periods	40%	23%	37%	

Time in Minutes (45 minute lessons)

	Computer Science	Computer Applications	Digital Literacy	Typing Skills
Grade 1	0	300	600	300
Grade 2	600	0	300	300
Grade 3	0	450	450	300
Grade 4	600	150	150	300
Grade 5	600	150	150	300
TOTAL	1800	1050	1650	1500
% of Instructional Time	30%	17.5%	27.5%	25%

(Note: Code.org has built a fourth computer science course for students aged 8-18 that could be incorporated into the elementary curriculum.)