



CS4RI Program Options



	Code.org	Project Lead The Way	Bootstrap	Bootstrap	URI	URI	Microsoft TEALS	Microsoft TEALS
Program	CS Fundamentals	Intro to CS	Bootstrap 1	Bootstrap 2	Intro to Computing	AP CS Principles	Intro to CS	AP CS A
Target Grade	K-6 th	6-8 th	8-10 th	8-10 th	9-12 th	11-12 th	9-12 th	10-12 th
Format	4 courses, 20 1-hr lessons integrated across k-6 curriculum	2 9-week units integrated into the PLTW Gateway curriculum	20 hour module in existing algebra course	1 semester course	1 semester course	2 semester course	1 semester course co-taught with industry partners	2 semester course co-taught with industry partners
Description	Students learn CS fundamentals by creating computer games	Students work in teams to design apps with MIT app inventor and explore text programming with Python	Students learn CS fundamentals and algebra by building a computer game	Students cover intro Bootstrap material, then expand on it to learn additional CS concepts	Computational thinking skills including an intro to programming	College-level intro to computational thinking/programming following College Board AP CS standards	Based on UC Berkeley's CS10, students learn college-level CS fundamentals using the Snap! block-based language	Based on Univ of Washington's CSE142/143, students learn college-level programming using Java following CollegeBoard's AP CS-A standards
Teacher Profile	No prior CS experience required	No prior CS experience required	No prior CS experience required	Bootstrap 1 experience, or discuss with staff	No prior CS experience required	No prior CS experience required	No prior CS experience required	Any prior AP teaching experience useful
PD Plan	1-day in-person PD and school year support	5-day in-person PD and school year support and access to community	3-day in-person PD and school year support	5-day in-person PD and school year support	6-day PD (3 online, 3 in person), school year support	6-day PD (3 online, 3 in person), school year support	Summer online course, industry mentor partnership, school year support	Summer online course, industry mentor partnership, school year support

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Cost to School*	PD/Curriculum costs waived	\$750/school for curriculum PD program costs waived for one teacher, \$950 for additional teacher PD	PD/Curriculum costs waived for one teacher \$1000/teacher for additional PD Free PD opportunities available	PD/Curriculum costs waived for one teacher \$1000/teacher for additional PD Free PD opportunities available	PD/Curriculum costs waived	PD/Curriculum costs waived \$92/student for AP exams	PD/curriculum costs waived	PD costs waived \$130/student for textbooks \$92/student for AP exams
Computer Access	Occasional student access	Access for all students	Occasional student access	Occasional student access	Access for all students	Access for all students	Access for all students	Access for all students
Unique Benefits	Free curriculum and online learning platform Blends online, self-guided tutorials with unplugged activities Alignment with CSTA CS standards and ISTE standards	Connects CS fundamentals to real world applications Improves computational thinking skills Alignment with Common Core and Next Generation Science standards	Can work in existing algebra classes Improve algebra outcomes with CS When deployed in algebra classes, makes computing available to all students, increasing equity	Improve algebra outcomes with CS	URI college credit via State concurrent enrollment program Free course materials Alignment with Next Generation Science standards	AP Credit URI college credit via State concurrent enrollment program Free course materials	Daily in – classroom support from TEALS volunteers (CS experts from industry or academia) Free open-source course materials Optional 2 nd semester continuation	Daily in – classroom support from TEALS volunteers (CS experts from industry or academia) Targets advanced students seeking college credit or credential for internship AP Credit
Concurrent Enrollment	N/A	N/A	N/A	N/A	Yes	Yes	TBD	TBD

*Per collective bargaining agreements, districts may be required to stipend teachers for time dedicated to professional development trainings.