

Report of Computer Science Teacher Professional Development Programs provide by MassCAN/EDC and their partners 2013-2018

MassCAN/EDC has been directly involved in coordinating, organizing, raising funding for, or otherwise supporting the programs identified in the table below in collaboration with BATEC (Broadening Advanced Technological Education Connections), ECSP (Expanding Computing Education Pathways), the MetroWest STEM Education Network at Framingham State University, Bootstrap, GUTS (Growing Up Thinking Scientifically), and Computer Science Professor Fred Martin at UMass Lowell.

This table is sorted by the **District Tally** column which shows the total number of teachers talking the specific PD programs in descending order by school district.

*Although ECS is listed as a grade 6-8 course, many high school teachers also took this PD program and are counted in the middle school column.

This table does not include:

- many other valuable CS professional development initiatives occurring around the state, most notably training by PLTW for their CS curriculum, Mass Insight Education and Research AP CS A or CSP, Scratch meet ups, KinderLab Robotics, etc., nor
- a wide variety of CS trainings individual teachers have pursued on their own or individual districts have pursued on their own.

Thus, this table likely represents approximately 50+% of Computer Science PD programs MA teachers have taken over the past 5 years.

LEGEND	
1 program	104 districts have participated
2 programs	41 districts have participated
3 programs	19 districts have participated
4 programs	8 districts have participated
5 programs	7 districts have participated

	Number of teachers that have taken specific PD programs					includes cohorts 2013 - 2018
	grades K-5	grades 6-8	grades 6-8	grades 9-12	grades 9-12	
School/district	Code Studio/ CS Fundamentals	Bootstrap	GUTS/CS Connections	ECS/CS Discoveries	CSP	District Tally
Boston	21	12	6	66	12	117
Lowell	24		10			34
Haverhill	11	3	5	7		26
Andover	20		1	3		24
Newton	11	2	1	8	1	23
Reading	4			12	3	19
Needham	6	5	4	2	1	18
Cambridge	7	1	2	7	1	18
Worcester	4	3	1	7	3	18
Waltham	11			6	1	18
Malden	16			2		18
Natick	9		2	5	1	17
Springfield		3	1	13		17
Weymouth	6	2		5	2	15
Framingham	8	1	2	3		14
Marlborough		2		9	1	12
Groton-Dunstable		2	2	5	2	11
Winchester	5	2		3	1	11
Arlington	2	1		8		11
Medford		2	2	7		11
Milton	1			7	2	10
New Bedford	2			4	4	10
Chelsea	5			4	1	10
Revere	8			2		10
Fall River	2	1	1	3	2	9
Everett	4	1	1	2	1	9
Swampscott	2	2	2	1	2	9
Methuen	3	1	3		1	8
Foxborough	1		1	6		8
Lynn	4		1	1	1	7
Pembroke		3	1	2	1	7
Walpole		1	4	2		7
Wayland	2			4	1	7
Watertown	6	1				7
Abington	1		2	3		6
Acton		2	2	2		6
Ashland	1		1	4		6

	Number of teachers that have taken specific PD programs					includes cohorts 2013 - 2018
	grades K-5	grades 6-8	grades 6-8	grades 9-12	grades 9-12	
School/district	Code Studio/ CS Fundamentals	Bootstrap	GUTS/CS Connections	ECS/CS Discoveries	CSP	District Tally
Brookline	1		2	3		6
Burlington	2		3		1	6
Littleton	1			4	1	6
Plymouth	2			2	2	6
Northborough Southborough	3		1	2		6
Beverly	5		1			6
Braintree			2	4		6
Dover Sherborn	3		3			6
North Reading	2			4		6
Wellesley				6		6
Bolton	2	1		1	1	5
Greenfield		1	2	2		5
Lynnfield	3		1		1	5
Mansfield	3		1		1	5
Northbridge	1			3	1	5
Wachusett Regional			2	2	1	5
Westborough	1		2	2		5
Holbrook				4	1	5
Lawrence	4	1				5
Westford	4		1			5
Sharon	5					5
Fitchburg	1	1			2	4
Lexington		1	1	2		4
Melrose	1			1	2	4
Millis	2	1		1		4
Palmer			4			4
Billerica	2		2			4
Dartmouth		3		1		4
Holyoke			1	3		4
Norwood	3		1			4
Sudbury	3			1		4
Tyngsborough	3			1		4
Uxbridge	2			2		4
Wakefield	3	1				4
Shelburne Falls				4		4
Chicopee			1	2		3
Dedham			1	2		3

	Number of teachers that have taken specific PD programs					includes cohorts 2013 - 2018
	grades K-5	grades 6-8	grades 6-8	grades 9-12	grades 9-12	
School/district	Code Studio/ CS Fundamentals	Bootstrap	GUTS/CS Connections	ECS/CS Discoveries	CSP	District Tally
Falmouth	2			1		3
Leominster	2		1			3
Mashpee	1	2				3
Medfield	2			1		3
Shrewsbury	1			2		3
Westwood	2	1				3
Winchendon	1			2		3
Amherst				3		3
Chelmsford	3					3
Dudley				3		3
Hanson	3					3
Rutland	3					3
Somerville				3		3
West Boylston				3		3
Wilbraham				3		3
Ashburnham			1	1		2
Barre	1			1		2
Belmont	1				1	2
Bourne	1	1				2
Brockton				1	1	2
Concord	1		1			2
Dighton Rehoboth	1				1	2
Douglas			2			2
Dracut	1	1				2
Fairhaven			1	1		2
Ipswich				1	1	2
Lincoln		1	1			2
Lunenburg				1	1	2
Maynard			1	1		2
Nauset Reg. HS				1	1	2
North Attleborough			1		1	2
Old Colony RVT	1			1		2
Sandwich			1		1	2
Taunton			1		1	2
Winthrop			1		1	2
West Springfield			1		1	2
Amesbury	2					2
Ayer	2					2

	Number of teachers that have taken specific PD programs					includes cohorts 2013 - 2018
	grades K-5	grades 6-8	grades 6-8	grades 9-12	grades 9-12	
School/district	Code Studio/ CS Fundamentals	Bootstrap	GUTS/CS Connections	ECS/CS Discoveries	CSP	District Tally
Boxford	2					2
Denis Yarmouth	2					2
Easton				2		2
Gloucester	2					2
Holliston				2		2
Hopkinton		2				2
Lenox	2					2
Ludlow				2		2
Middleton	2					2
Norfolk	2					2
North Andover	2					2
Northampton		2				2
Southwick				2		2
TEC High School					2	2
Templeton	2					2
Topsfield	2					2
Wareham		2				2
Westhampton				2		2
Wilmington	2					2
Agawam					1	1
Athol-Royalston	1					1
Auburn	1					1
Avon					1	1
Belchertown				1		1
Berkshire County	1					1
Blackstone/Melville RHS					1	1
Blue Hiils RTS					1	1
Bradford	1					1
Carlisle	1					1
Carver	1	1				2
Charlton		1				1
Danvers	1					1
East Brookfield				1		1
Erving			1			1
Franklin				1		1

	Number of teachers that have taken specific PD programs					includes cohorts 2013 - 2018
	grades K-5	grades 6-8	grades 6-8	grades 9-12	grades 9-12	
School/district	Code Studio/ CS Fundamentals	Bootstrap	GUTS/CS Connections	ECS/CS Discoveries	CSP	District Tally
Greater Lowell RVT					1	1
Hamilton-Wenham Regional HS					1	1
Harvard		1				1
Hingham	1					1
Holden			1			1
Hubbardston	1					1
Hudson					1	1
Hull				1		1
Kingston	1					1
Longmeadow					1	1
Manchester	1					1
Marblehead	1					1
Marion				1		1
Marshfield	1					1
Middleborough					1	1
Milestones Day School					1	1
Milford	1					1
Nantucket		1				1
Newbury	1					1
Newburyport	1					1
North Brookfield	1					1
Northfield				1		1
Norwell	1					1
Oakham/ Hardwick	1					1
Old Rochester					1	1
Orange			1			1
Petersham			1			1
Plainville	1					1
Rochester				1		1
Rockland	1					1
Rockport	1					1
Salem			1			1
Saugus					1	1
Scituate			1			1
Shutesbury			1			1
South Deerfield				1		1

	Number of teachers that have taken specific PD programs					includes cohorts 2013 - 2018
	grades K-5	grades 6-8	grades 6-8	grades 9-12	grades 9-12	
School/district	Code Studio/ CS Fundamentals	Bootstrap	GUTS/CS Connections	ECS/CS Discoveries	CSP	District Tally
South Deerfield				1		1
South Easton			1			1
South Hadley	1					1
Southbridge			1			1
Stoneham	1					1
Stratford	1					1
Stoughton				1		1
Swansea					1	1
Tahanto Reg. HS					1	1
Tewksbury				1		1
Uxbridge	1					1
Ware				1		1
Webster	1					1
West Newbury	1					1
West Yarmouth	1					1
Westminster	1					1
Weston		1				1
Wilbraham & Monson Academy				1		1
Whitman Hanson	1					1
Woburn	1					1
Xaverian Brothers HS				1		1
Total # of Teachers	352	80	112	338	86	968