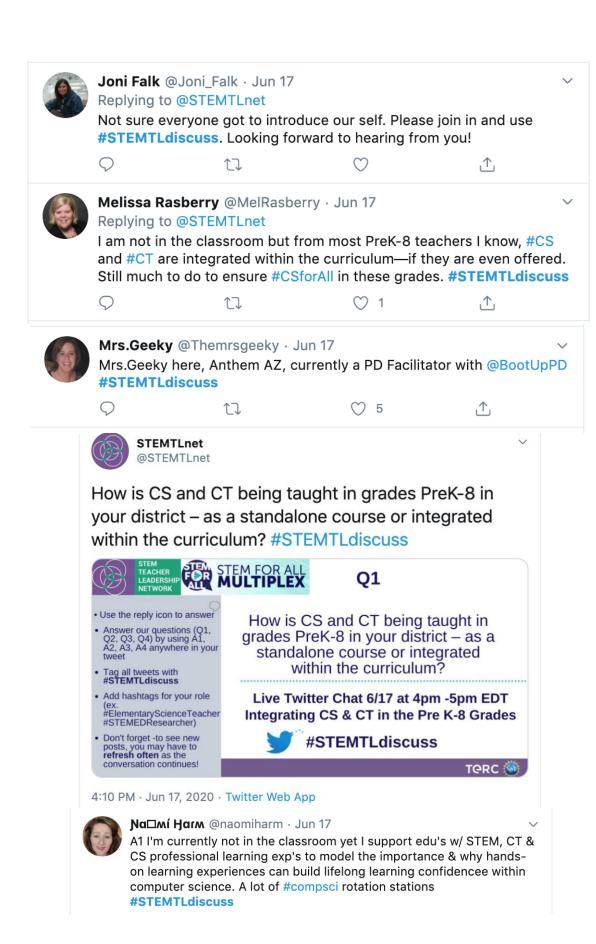
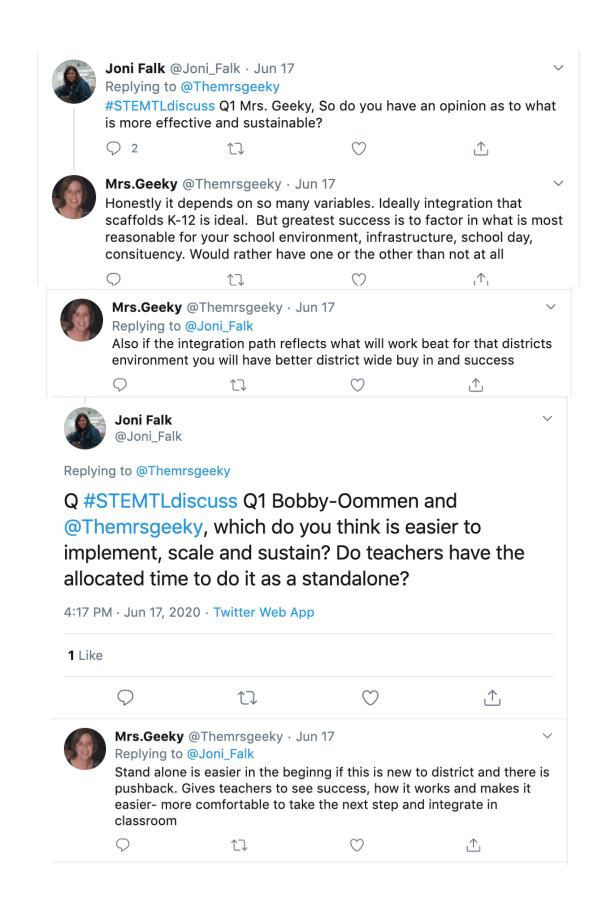
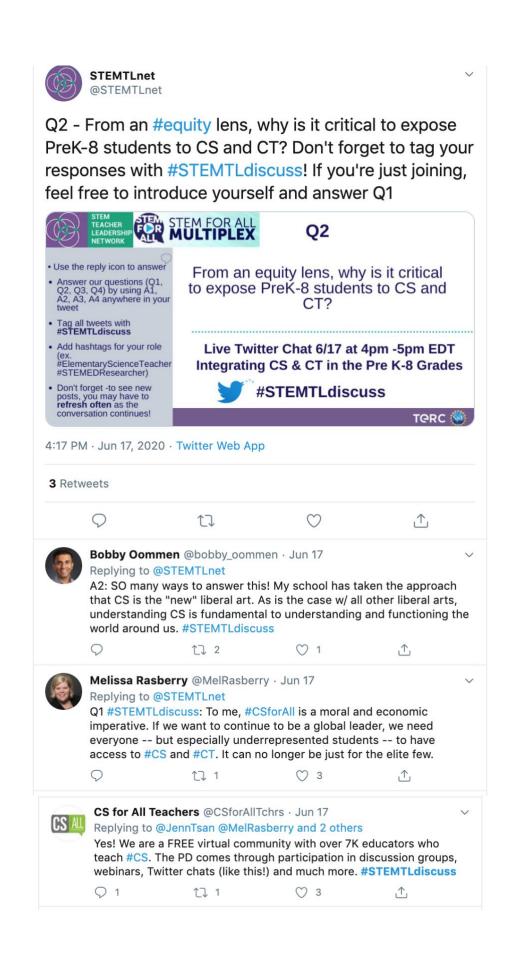


	© 1	to serve as the Pr	for @CSforAllTchrs	·: 	
•		n n @JennTsan · Ju ally meet you! Do y	in 17 you offer PD @CSf	orAllTchrs?	~
	Q 1	17	\bigcirc	$ \uparrow $	
SAL	Yes! We are a teach #CS. T	he PD comes thro	Tchrs · Jun 17 munity with over 7 ugh participation i is!) and much more	n discussion gro	ups,
	∫ 1	1	₩ 3	ightharpoons	
	Jennifer Tsa	ı n @JennTsan · Ju	ın 17		~
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	Bobby Oommen @bobby_oommen · Jun 17 Replying to @STEMTLnet A1: I'm at an independent school. Our LS (PreK-4th) offers CS as standalone course. The MS (5th-8th) offers CS as standalone class for 5th & 8th, BUT we integrate CS/CT through collaborative projects in all four grades. #STEMTLdiscuss					
	□ 1	1 2 2	♡ 2	riangle		
	Melissa Rasberry @MelRasberry · Jun 17 Wow, @bobby_oommen! Standalone course for PreK-4? What does that look like? How often do kids go? #STEMTLdiscuss					
	□ 1		♡ 2	\triangle		
	Bobby Oommen @bobby_oommen · Jun 17 Great question - @fadd is our LS CS Teacher. I believe Ss cycle through courses on a 6 day cycle. LS Ss attend their CS class 1x/cycle. @fadd , can you confirm?					
	\Diamond	\Box	₩ 3	riangle		
	Replying to @STEMTLnet A1: In my district, most CS and CT instruction seems to be limited to media center time and electives. However, in charter schools in the area, it seems more common for more students to have access to CS and CT instruction #STEMTLdiscuss					
	\Diamond	1 1	♡ 1			
varie	ty of schools	ss Q1 I am for . I have seen l d also teache	both ways- w	ith purpse		
isolat	tion					
	Replying to @The What are some m	@nancymclaughs · emrsgeeky nethods of integration TEMTLnetdiscuss		vell as some you		
	□ 1	t ī	\bigcirc			
	Mrs.Geeky @Themrsgeeky · Jun 17 I love it when you ask a teacher if they teach CS -they say no, then ask their students to use LOGO to draw a triangle ,Scratch to illustrate a verb, EarSketch 2 create a song The "method" have teachers forget the word coding, CT and show them hands on kinestheticTeaching Tools					
	r		~			





•	Replying to (I will have to	check this out! I kn	elRasberry and 2 ot ow teachers who are to start teaching CS	e interested but i	may	
	Q		♡ 2	ightharpoons		
•	Replying to @A2: The critic solve probler	cal aspect of #CS a	ghs · Jun 17 and #CT in PreK-8 c asoning. This can b		-	
	√ 1	1	♡ 2	ightharpoons		
			17 ceach #CS #CT in th	ne context of so	ving	
	C Lies Bods	↑ 1 roderunners · Jun	♡ 2	ightharpoons		
	development provides time	g opportunities for of problem solvin e for a wider range	CS and CT in elem g strategies & crea of students to lea or specials block.	ntive solutions. I rn about CS wit	t also hout	
	Q 1	1 2	♡ 5	ightharpoons		
	I'm curious, (in other area	s do well in #CS/#	rry · Jun 17 /e you seen studen CT? I can imagine t s lie. #STEMTLdisc	hat it may help		
	O 2	\Box	\bigcirc	, ↑ ,		
	Lisa Rode @roderunners · Jun 17 Replying to @MelRasberry and @STEMTLnet There have been so many times where students have been empowered by the use of coding/robotics.					
	\bigcirc	↑ 1	♡ 1	ightharpoons		
	Replying to @ absolutely!!!! for the gifted many kids we	That is why roboti or after school pro	derunners and @ST cs, programming et ograms. I can not bo gh these experience	c. should never egin to tell you h	ow	
	Q 1	₹7 3	♡ 7	\triangle		
	ITA, @Themrediscover they	r're good at someth	eo_Qc · Jun 17 a low school-relate ning! And the oppos uddenly not be at t	site happens too		
	\bigcirc	\Box	♡ 1	\triangle		

Replying to @STE A2: There are mar programming. How	ny resources online wever, for students	for PreK-8 students that do not have te ose resources #STE	chnology at	~
Q 2	↑ 2	♡ 2	\triangle	
Replying to @Jenr @JennTsan @STE CSFirst has many classes.	unplugged lessons o a wonderful reso			~
\bigcirc	↑ 1	♡ 1	ightharpoons	
Replying to @Jenr	@nancymclaughs - nTsan and @STEMT st is very user friend .com/s/en/home	Lnet		~
Q 1	↑ 1	♡ 2	ightharpoons	
-	ped out with a CSFi ggle with focusing	irst initiative but I ha on video tutorials a		
∫ 1		\bigcirc	ightharpoons	
Be aware of the le	ginners I find it mos	Jun 17 rities. The videos a st helpful to work th		~
\bigcirc		♡ 1	$ \uparrow $	
A2 from an equity learning opp to m our Ss & w/ differi	eet the diversified ing abilities. It also	h has proven that C learn needs of eac provides the neces xp's. #stemTLdisc	h & every one ssary access a	of
A2 #STEMTLdisc problem solving		ying field. All stude to all subject matt overall		v ic,
	↑7, 2		\triangle	



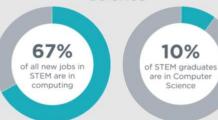
Wanda Faye Bryant @wandabryant · Jun 17

A1 Wanda Bryant, @Detroitk12 middle school teacher. I'd start here: **#STEMTLdiscuss**

Some may think:

This problem is about "STEM" (Science, Technology, Engineering, and Math)...

The STEM problem is in computer science



Solving the diversity problem begins



K-12 computer science



University computer



Software

Women who try AP Computer Science in high school are ten times more likely to major in it in college, and Black and Hispanic students are seven times more likely.

Support K-12 Computer Science Education in Michigan



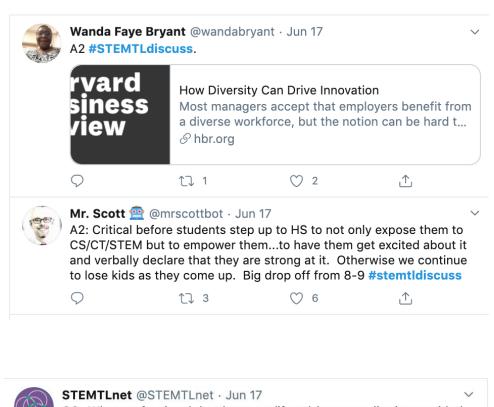


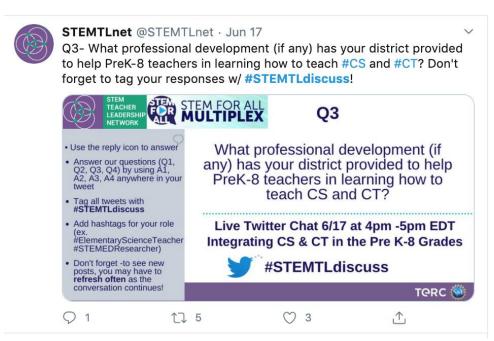
Computer science in Michigan

Na□mí Harm @naomiharm · Jun 17

A2. CS also is the number one indicator to empower /motivate more girl students to pursue a passion-driven career in STEM/CS as long as they have a supportive role model women mentor starting at elem, especially in MS & continued on w/ a strong women mentors in HS

#STEMTLdiscuss



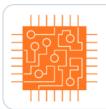




Bobby Oommen @bobby_oommen · Jun 17

Replying to @STEMTLnet

A3: 2 yrs ago, @Latin_School held our own 1 day CS conf for our entire school - all Ts were in attendance. We discussed equity, increasing diversity in CS, and integrating CS in all courses. Had internal & external spkrs It was awesome! #STEMTLdiscuss!



Computer Science @ Latin Schedule & Directory
Latin School of Chicago, 45 W North Blvd,
Chicago, IL 60610 - See the full schedule of even...

Slatincs.sched.com

1



CS for All Teachers @CSforAllTchrs · Jun 17

1 2

Bravo! That's wonderful, @bobby_oommen. I bet you had something to do with that :) #STEMTLdiscuss



Na□mí Harm @naomiharm · Jun 17

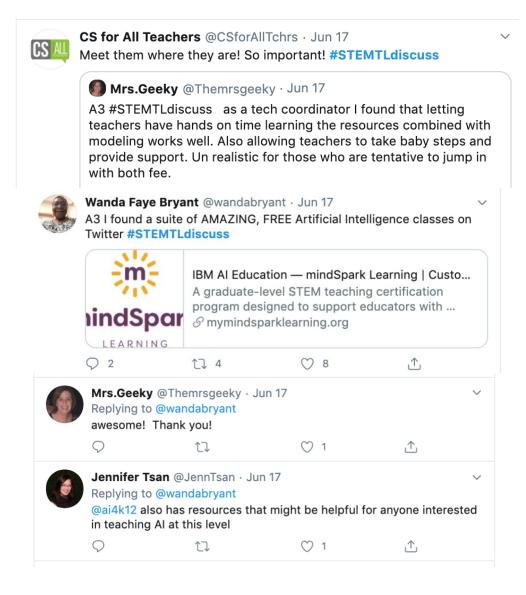
A3. For some schools it's optional for some edu's to find their own CS PD, where other districts have a dedicated strategic plan to incorporate CS as a thematic unit approach throughout a k12 focus and every student is provided differentiated learning experiences.
#STEMTLdiscuss



Mrs.Geeky @Themrsgeeky · Jun 17

A3 #STEMTLdiscuss as a tech coordinator I found that letting teachers have hands on time learning the resources combined with modeling works well. Also allowing teachers to take baby steps and provide support. Un realistic for those who are tentative to jump in with both fee.

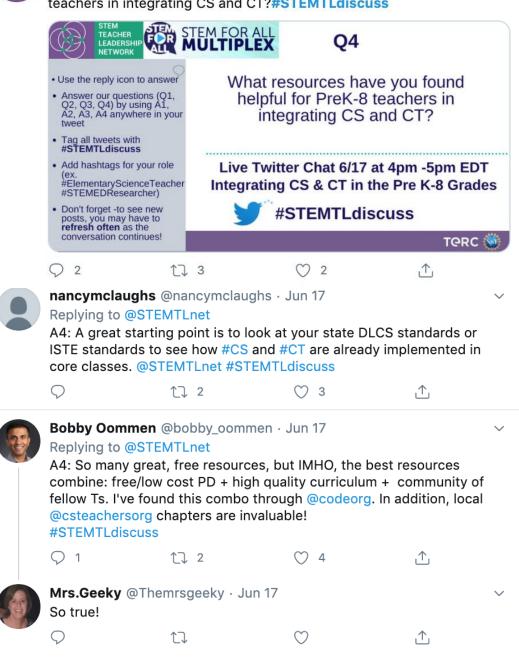






STEMTLnet @STEMTLnet · Jun 17

Last question! Q4 - What resources have you found helpful for PreK-8 teachers in integrating CS and CT?#STEMTLdiscuss





Na□mí Harm @naomiharm · Jun 17

A4 I have personally found exemplar resources of CS/CT resources through @CSforAllTchrs virtual community of practice, here is ex of how to start a girl's cloding club csforallteachers.org/blog/how-engag...
Twitter hashtags #compsci & #csk8 Collaborating alongside w/other #CS edu #STEMTLdiscuss





Inspiration and support for teachers

Inspiration and support for LEGO-based engineering in the classroom

⊗ legoengineering.com

Q 1 1 1 3

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