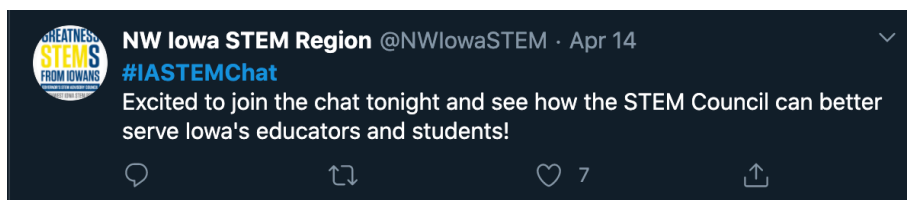



Pre-Chat



Introduction

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Replying to @IowaSTEM
Kristine Bullock, SE Iowa STEM Regional Manager, Iowa City


🗨️ ↻️ ❤️ 4 ↗️

 **NE Iowa STEM Region** @NE_IA_STEM · Apr 14
Replying to @IowaSTEM
My name is Jeff Beneke the Northeast Iowa Regional Manager for the Iowa STEM Council #IASTEMChat


🗨️ ↻️ 1 ❤️ 7 ↗️

 **NE Iowa STEM Region** @NE_IA_STEM · Apr 14
Replying to @IowaSTEM
My name is Jeff Beneke and I'm the Northeast Regional Manager for the Iowa STEM Council.

🗨️ ↻️ ❤️ 2 ↗️

 **Cedar Falls CAPS** @CF_CAPS · Apr 14
Replying to @IowaSTEM
Ethan Wiechmann Cedar Falls CAPS Director coming to you live in the command center at my home in the great community of Cedar Falls, IA

🗨️ 1 ↻️ ❤️ 1 ↗️

 **Cedar Falls CAPS** @CF_CAPS · Apr 14
#IASTEMchat


🗨️ ↻️ ❤️ 2 ↗️

 **Tanya Hunt** @TanyaHu0907 · Apr 14
Replying to @IowaSTEM
Tanya Hunt joining from Cedar Falls, newest member of the Governor's STEM Council. #IASTEMchat

🗨️ ↻️ ❤️ 7 ↗️


 **Jeffrey Weld** @JdWeld · Apr 14
Replying to @IowaSTEM
'evening everyone. Excited to learn with you. Jeff Weld - director, Gov.'s STEM Council #IASTEMchat

🗨️ ↻️ ❤️ 7 ↗️


 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @IowaSTEM
I'm the Dir. of K-12 Ed @NewBoCo with girls ages 5&8. I help run programs for K-12 Ss and computer science PD for Iowa educators. Joining from Cedar Rapids. #IASTEMchat

🗨️ ↻️ ❤️ 7 ↗️


Introduction

 **SC Iowa STEM Region** @SC_Iowa_STEM · Apr 14
Replying to @IowaSTEM
Hi All. I'm Sarah Derry, the SC STEM region manager. Looking forward to learning from and with you during tonight's #IASTEMChat

9

 **Caroline Rankin** @clgrankin · Apr 14
Replying to @IowaSTEM
Hi all. Carrie Rankin, Assoc. Director Iowa STEM Council. #IASTEMChat


9

 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @IowaSTEM
Pat Barnes, oversee youth STEM support at John Deere, member of Iowa Govs STEM Advisory Council, in Quad Cities #IASTEMChat

6

 **Tyler Hahn** @TybrarianKee · Apr 14
Replying to @IowaSTEM
Tyler Hahn, librarian from Cherokee, IA


3

 **Mike Kuennen** @MikeSKuennen · Apr 14
Replying to @IowaSTEM
Mike Kuennen with Iowa BIG North.

4

 **Chris Cournoyer** @CournoyerIA · Apr 14
Replying to @IowaSTEM
Senator Chris Cournoyer, Vice Chair of Education, former Pleasant Valley School Board President, mother of four! Tuning in from @LeClaireIowa !


4

 **Alison Mohr** @mohr_alison · Apr 14
Replying to @IowaSTEM
Alison Mohr - SC Board Member, Parent, Assistant Director of K12 Education at NewBoCo, and 6th-8th Grade STEM Teacher - Altoona, IA


4

 **SW Iowa STEM Region** @SW_Iowa_STEM · Apr 14
Replying to @IowaSTEM
Deb Frazee SW Region STEM Manager


4

 **Ronda** @mccarthy102195 · Apr 14
 Replying to @IowaSTEM
 I am Ronda McCarthy and I teach #MSscience/STEM in Des Moines. A1 .I am using video demonstrations that I record in my kitchen for my student's showing a simple activity that they could do at home then connect learning with real world challenge questions, #IASTEMchat

3 11

 **Jeffrey Weld** @JdWeld · Apr 14
 A1 Ronda are your video demos available for others to try/peek at? #IASTEMchat

1 1

 **Ronda** @mccarthy102195 · Apr 14
 I post my video's on my Google Classroom for my students but am willing to share! We created hydroponic systems for growing plants then connected this to NASA's efforts to grow food in space and on Mars #IASTEMchat

4

 **NW Iowa STEM Region** @NWIowaSTEM · Apr 14
 Replying to @IowaSTEM
 Mary Trent, NW STEM Regional Manager

2

 **Darin Johnson** @darin_johnson · Apr 14
 Replying to @IowaSTEM
 Darin Johnson
 PK-5 Tech Integrationist
 Denison, IA

2

 **Hannah M** @morzh · Apr 14
 Replying to @IowaSTEM
 Hi 🙋 I'm Hannah! I work with after school, before school, and summer programs as an Enrichment Coach in Dallas, Polk, and Warren County.

2


 **ISU 4H Cherokee** @4hISUCherokee · Apr 14
 Replying to @IowaSTEM
 Extension Educator K -12

2


 **Michele Williams** @MsWill_SWV · Apr 14
 Replying to @IowaSTEM
 Michelle Williams
 7/8 science and 8 STEM
 Corning/Villisca, IA

2

Introduction

 **Ann Arnold** @ALCMathGeek · Apr 14
Replying to @IowaSTEM
My name is Ann Arnold. I teach math at an alternative high school program. At home I am "homeschooling" a 3rd grader, 1st grader and preschooler.


🗨️ ↻ ❤️ 2 ↗

 **Joel Bundt** @bundtjd · Apr 14
Replying to @IowaSTEM
Joel Bundt, HS Math and Computer Science, MOC-Floyd Valley. I'm in my corner of the basement, from which I work these days.

🗨️ ↻ ❤️ 2 ↗

 **MrsKultScience** @MrsKult · Apr 14
Replying to @IowaSTEM
Kim Kult, science instructor, North Polk High School

🗨️ ↻ ❤️ 1 ↗

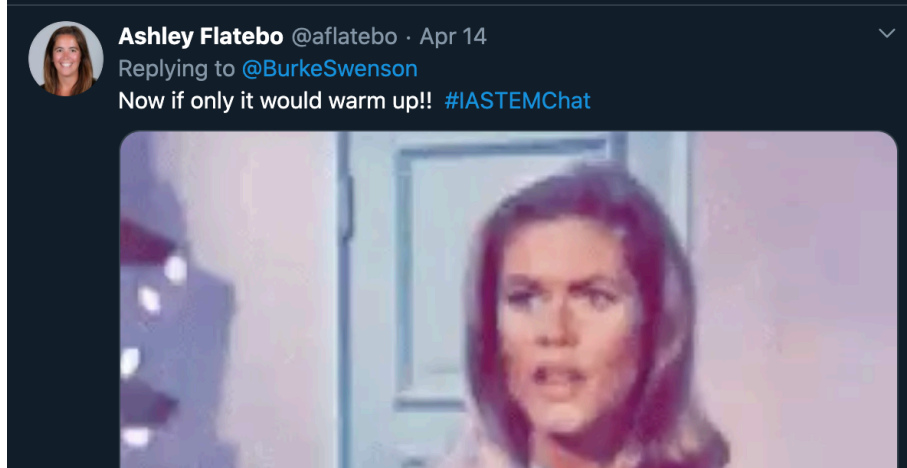
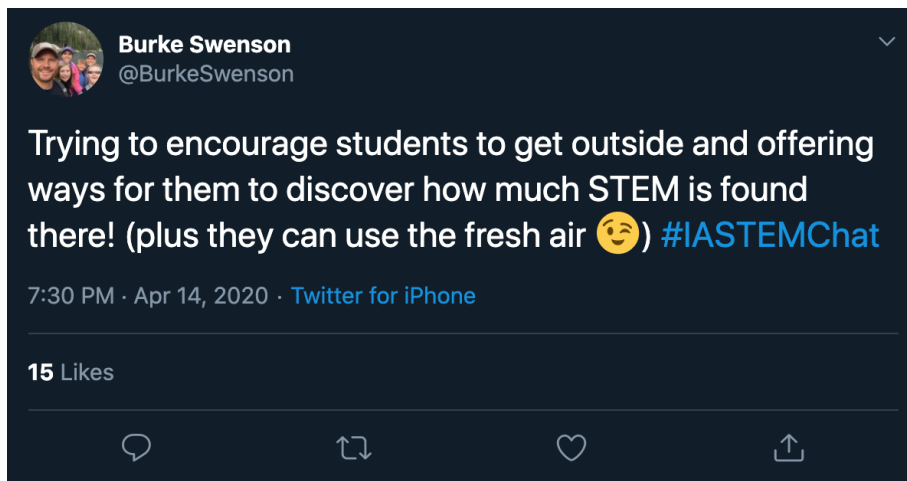
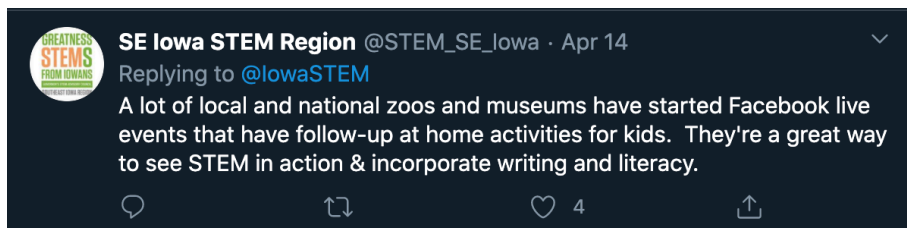
 **Darrin Dowell** @DarrinDipity · Apr 14
Replying to @IowaSTEM
Parent of 3, software engineer and spouse of a teacher. I interview and hire people, so lots of opinions about what skills I see in grads, what I'm seeking, and the gap. If you are a teacher that wants to talk about what you are teaching, I'm all ears. 📍 Ankeny, IA

🗨️ ↻ ❤️ 1 ↗

 **Fueled By Coffee** @StratScouts · Apr 14
Replying to @IowaSTEM
@pathfinder13497

🗨️ ↻ ❤️ ↗

Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat



Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

**Samantha Dahlby**
@dahlbys

Replying to @IowaSTEM

A1: We discovered phet.colorado.edu with science simulations for Elem–University. They are a fun way to start discussing different STEM topics and to run experiments without finding all of the materials.

[#IASTEMchat](#)



PhET Interactive Simulations
Founded in 2002 by Nobel Laureate Carl Wieman, the PhET Interactive Simulations project at the University of Colorado...
phet.colorado.edu

7:07 PM · Apr 14, 2020 · [Twitter Web App](#)

1 Retweet 13 Likes



**Iowa STEM** @IowaSTEM · Apr 14

Replying to @dahlbys


That sounds great! Thanks for sharing.




**Michele Williams** @MsWill_SWV · Apr 14

Replying to @dahlbys and @IowaSTEM

I use these too, and if you sign up as a teacher there are free worksheets that go with the simulations. Some are new that are student directed and designed to be done as distance learning. [#IASTEMchat](#)


 3

Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

 **Michele Williams** @MsWill_SWV · Apr 14
Replying to @IowaSTEM
A1: I've been checking out a LOT of STEM Facebook groups. It's super helpful to see what other teachers are doing, or even see conversations being had. #IASTEMchat
3 5

 **Iowa STEM** @IowaSTEM · Apr 14
Thanks for the feedback!
1

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Replying to @MsWill_SWV and @IowaSTEM
Any groups you recommend? #IASTEMchat
1 1

 **Michele Williams** @MsWill_SWV · Apr 14
--> STEM Teachers Group - Middle School and High School Educators
--> STEM Teachers Group
--> NGSS For Middle & High School Science Teachers
#IASTEMchat
4

 **Caroline Rankin** @clgrankin · Apr 14
Replying to @MsWill_SWV and @IowaSTEM
Michelle, would you mind sharing a few?

Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

 **Chris Cournoyer** @CournoyerIA · Apr 14
Replying to @IowaSTEM
A1: twin 7th Graders also using

 **Khan Academy**

Khan Academy | Free Online Courses, Lessons & Practice
You can learn anything. Expert-created content and resources for every course and level. Always free.
khanacademy.org

2 ↻ 2 ↗


 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Replying to @CournoyerIA and @IowaSTEM
They even go as low as 2 years old!


↻ ↻ 1 ↗

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @CournoyerIA and @IowaSTEM
Oh yes! Thank goodness for @khanacademy and @ProdigyGame ❤️
Both of my girls beg to do these first each day. #IASTEMchat

↻ ↻ 9 ↗


Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

 **Hannah M** @morzh · Apr 14
Replying to @IowaSTEM
I have been LOVING @beamcenternyc's Anywhere Projects that you can do at home. Household materials! K-12 prompts! So engaging.




beam anywhere projects yes — Beam Center
beamcenter.org


1 1 6

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Designing a time capsule would be especially timely!


1 3

 **Darin Johnson** @darin_johnson · Apr 14
Great idea!


1 1

 **Michele Williams** @MsWill_SWV · Apr 14
Replying to @IowaSTEM
A1: My district is not requiring us to meet face to face with students, but the other STEM teacher is using Zoom to meet with students at certain times each week to meet about projects. Come and go as students want. [#IASTEMchat](#)


2 6

 **Iowa STEM** @IowaSTEM · Apr 14
We are using Zoom to keep connected as well!


1

 **Darin Johnson** @darin_johnson · Apr 14
Replying to @MsWill_SWV and @IowaSTEM
I'm curious: Are you getting a lot of students to participate?

1 1

 **Michele Williams** @MsWill_SWV · Apr 14
Unfortunately not. Since our district (like many many others) are going the voluntary route, many students have said they aren't going to do work because they're not graded.

1 1


 **Darin Johnson** @darin_johnson · Apr 14
We're seeing the same thing. The closure happened so quickly that we didn't have time to prepare the students. Many think they're out for the summer, unfortunately.

1

Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

 **Cedar Falls CAPS** @CF_CAPS · Apr 14
Replying to @IowaSTEM
A1: Continued work with area businesses on client projects, supporting community initiatives during Pandemic, using virtual platforms for weekly webinars and guest speakers #IASTEMchat

8

 **Laura Williams** @mrswilliams21c · Apr 14
Replying to @IowaSTEM
Also @AEAlearning has helped put together resources at sites.google.com/aealearningonline/ #IASTEMchat


4

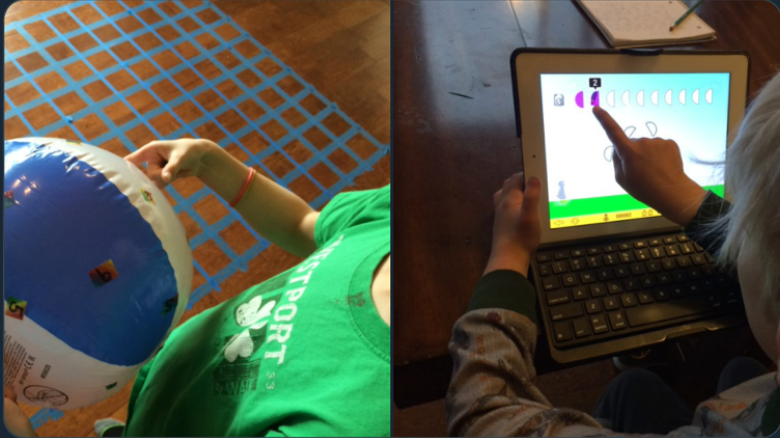
 **Alison Mohr** @mohr_alison · Apr 14
Replying to @IowaSTEM
A1 - So many great resources out there and groups that are working to shift to support at home learning. I've enjoyed Iowa State Engineering Kids weekly posts isek.iastate.edu/at-home-activities/ #IASTEMchat



Fun at-Home Activities!
Hi, Iowa State Engineering Kids (and families) – each day we hope to add an activity with some fun ...
isek.iastate.edu


7

 **SC Iowa STEM Region** @SC_Iowa_STEM · Apr 14
Replying to @IowaSTEM
A1: As a parent, I have been using the #TeachableMoment page from @IowaSTEM. ST Math and CabinFever Math have worked well with my 5 and 10 year olds. #IASTEMchat





8

Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @IowaSTEM
A1: Lots of great resources & lists available on-line with several free during #COVID-19. Such as ST Math or Nepris. #IASTEMChat

2 1 6


 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
A1: here is the link for ST Math for free access stmath.com/coronavirus #IASTEMChat




Home Access to ST Math®
Meaningful math learning while school is closed.
Made possible by MIND RESEARCH INSTITUTE

ST Math - Coronavirus
School closed due to coronavirus? Get resources and access to ST Math for your students so learning can keep on happening, even if ...
stmath.com


1 7

 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @PatrickOBarnes and @IowaSTEM
A1: Here is the link for Nepris with free access Nepris.com #IASTEMChat

1

 **SW Iowa STEM Region** @SW_Iowa_STEM · Apr 14
Replying to @IowaSTEM
A1 It has been interesting to work from the Informal Educator side and see how many different resources they have located to share - say through the Library system. #IASTEMchat

9

 **Ann Arnold** @ALCMathGeek · Apr 14
Replying to @IowaSTEM
I have been using a lot of Pinterest lately for ideas. Mostly in keeping my own children engaged. We have been talking about the scientific method a lot lately. Grades 3, 1 and PK. #IASTEMChat

4

Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat



The image shows a screenshot of a Twitter thread on a dark background. It features six tweets from various users, each with a circular profile picture, name, handle, date, and text. Interaction icons for replies, retweets, and likes are visible below each tweet. The thread discusses STEM resources used during homebound periods, specifically mentioning Zoom, Slack, and VEX Robotics.

Mike Kuennen @MikeSKuennen · Apr 14
Replying to @IowaSTEM
A1: Zoom and Slack have been amazing tools for us to communicate with students. Zoom offering the face-to-face communication is invaluable....
[#IASTEMchat](#)

Ann Arnold @ALCMathGeek · Apr 14
Slack has been essential for keeping my robotics team together!
[#IASTEMChat](#)

Alison Mohr @mohr_alison · Apr 14
[@VEXRobotics](#) just released a virtual platform for robotics programming at [vr.vex.com](#) Fun resource for students to keep programming even if they can't build right now.

Ann Arnold @ALCMathGeek · Apr 14
I know. I am so excited to look into this! [#IASTEMChat](#)


Samantha Dahlby @dahlbys · Apr 14
Replying to @MikeSKuennen and @IowaSTEM
This is so true! Just being able to see faces helps students (and adults) so much.

Laura Williams @mrswilliams21c · Apr 14
Replying to @MikeSKuennen and @IowaSTEM
Love slack for project management!


Laura Williams @mrswilliams21c · Apr 14
Replying to @IowaSTEM
A1 - I've been pointing people to the [clearinghouse.futurereadyiowa.gov](#) to continue authentic stem work [#IASTEMchat](#)

Samantha Dahlby @dahlbys · Apr 14
So thankful for all of the work that went into this!


Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat

 **Alison Mohr** @mohr_alison · Apr 14
Replying to @IowaSTEM
A1 - Lots of computer science sites have opened up access for free student/teacher usage. #IASTEMChat


1 6

 **Alison Mohr** @mohr_alison · Apr 14
codesters, codecademy, code combat are a few


1 2

 **Samantha Dahlby** @dahlbys · Apr 14
The creators of @CodeCombat also have @PlayOzaria now, and this has a classroom dashboard to track student progress. Great for being able to see how your students are doing and provide individualized support. #IASTEMchat

3 11

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @IowaSTEM
My girls have been making geometric shapes with painters tape and then coloring them in with chalk. It's a fun, education activity that we can do outside. We're trying to find "resources" around us at home and have free build or prompt based creating time. #IASTEMchat

1 9


 **Laura Williams** @mrswilliams21c · Apr 14
I love this!

2


 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @IowaSTEM
A1: One more Link to nice lists of resources via NSTA (National Science Teaching Association) [nsta.org/membership/free...](https://nsta.org/membership/free-resources) #IASTEMChat

2


Q1: What resources are you using to help learn STEM through this homebound period? #IASTEMchat


 **Chris Cournoyer** @CournoyerIA · Apr 14
Replying to @IowaSTEM
A1: zoom, google hangouts, Microsoft Teams, Youtube


2 2

 **Chris Cournoyer** @CournoyerIA · Apr 14
Replying to @CournoyerIA and @IowaSTEM
Google Hangouts for my twin 7th graders seems to be working well.


1

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @CournoyerIA and @IowaSTEM
Have you found one that you prefer?

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @IowaSTEM
A1: For coding online and away from computers, we've been checking out [Code.org/athome](https://code.org/athome). Lots of different options for different levels and there are activities that can be done away from the computer which is nice right now when so many resources are online. #IASTEMchat

 Learning computer science when schools are closed in response to Covid19
code.org

1 5

 **Karl-Hermann Rollke** @khrollke · Apr 15
ios and Android apps with Thunkable X

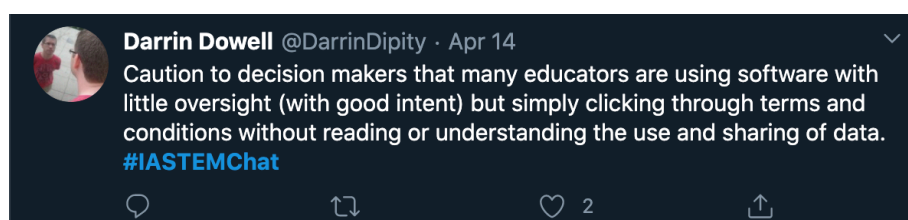
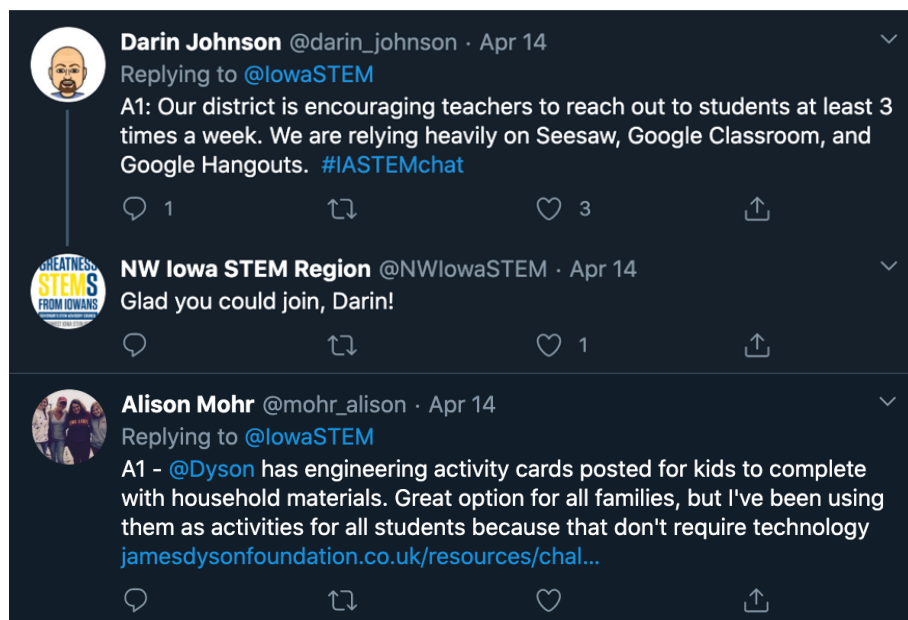
BookUS

dsh.re/caf2a

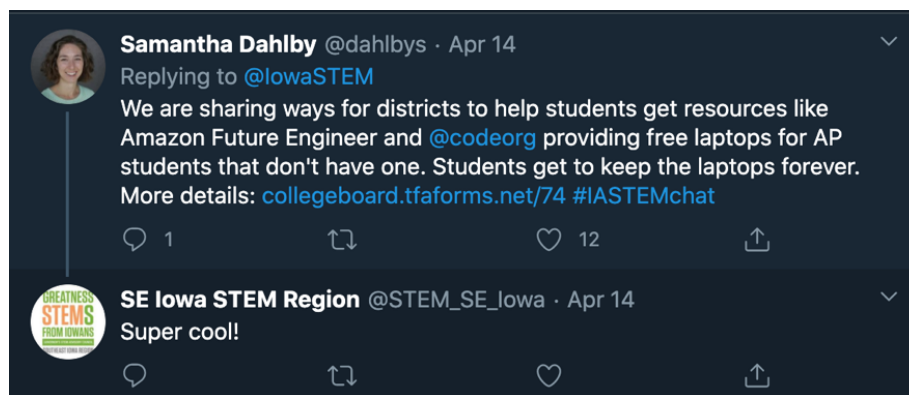
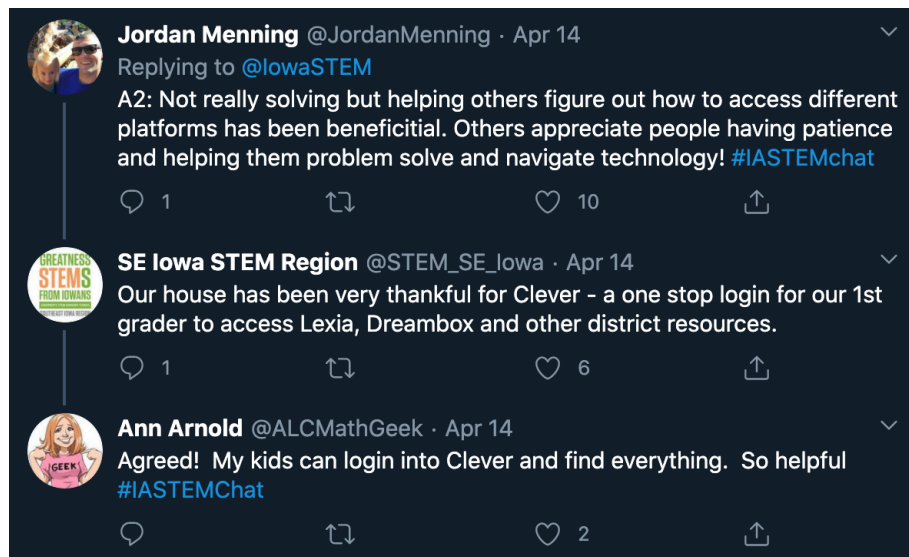
KindleUS

dsh.re/9df23

Q1: What resources are you using to help learn STEM through this homebound period? [#IASTEMchat](#)



Q2: How are you solving technology access and capacity challenges? #IASTEMchat



Q2: How are you solving technology access and capacity challenges? #IASTEMchat

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @IowaSTEM
A2: During the school year we offer in-person CoderDojo events for 1st-5th graders. We have transitioned them to virtual events twice a week during the day to help students continue to explore and potentially provide a break for parents. #IASTEMchat

1 4


 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Is registration required?

1


 **Samantha Dahlby** @dahlbys · Apr 14
Yes, we only send the link to those registered to keep the video conference safe. More info and registration link can be found at newbo.co/newboco-k-12-e... #IASTEMchat

 **CoderDojo - NewBoCo**
On the first and third Saturdays of the month from 1:00–3:00 p.m., NewBoCo hosts CoderDojo, a free ...
newbo.co


1 6

 **Darin Johnson** @darin_johnson · Apr 14
Replying to @IowaSTEM
A2: We sent out a Google form link for parents of K-3 students who needed computers and/or internet access. We have distributed over 90 computers and approximately 10 hotspots to students in the last month. #IASTEMchat


1 8

 **Iowa STEM** @IowaSTEM · Apr 14
That's fantastic!

1

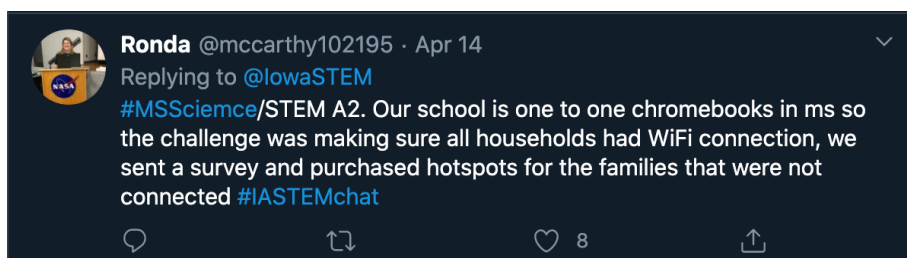
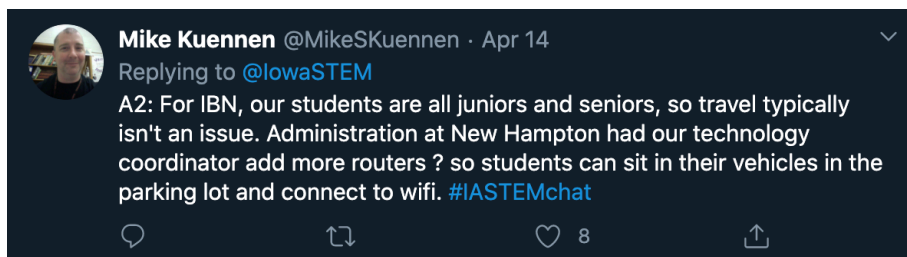
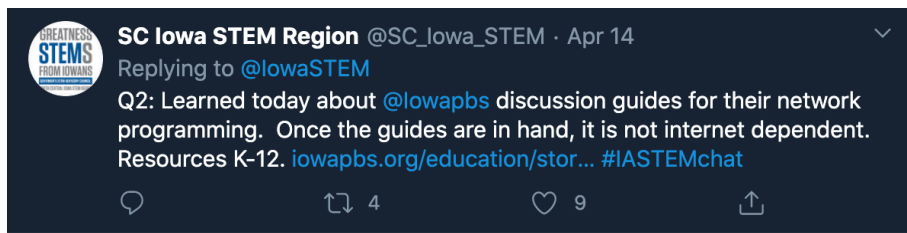
 **Cedar Falls CAPS** @CF_CAPS · Apr 14
Replying to @IowaSTEM
A2: CFHS is a one to one school with computers. For homes where internet access we are working with our local utility company, CFU, with the Connect>CF program. #IASTEMchat

1 6


 **Ashley Flatebo** @aflatebo · Apr 14
The support of Internet providers in communities across the state has been amazing! #weareallinthis together #IASTEMChat

9

Q2: How are you solving technology access and capacity challenges? #IASTEMchat




Q2: How are you solving technology access and capacity challenges? #IASTEMchat




Michele Williams @MsWill_SWV · Apr 14
Replying to @IowaSTEM
A2: The district is having teachers come up with a minimum of 2 tech-based/online activities and 2 non-tech activities. We are printing out "packets" with the non-tech activities and families can pick these up when they pick up meals from school if they want. #IASTEMchat

1 6




Michele Williams @MsWill_SWV · Apr 14
A2 (again): one example of a non-tech STEM activity that I have given to students is to create a Rube Goldberg machine at home and either record a video of it or sketch the design out on paper. #IASTEMchat

1 8




Ann Arnold @ALCMathGeek · Apr 14
I have been driving worksheets to students so they can get a second chance at finishing work. #IASTEMChat

8




Alison Mohr @mohr_alison · Apr 14
Replying to @IowaSTEM
Q2 - We surveyed families to gather information about device and access in their homes. Families without access are getting printed versions of all lessons and weekly check-ins from teachers #IASTEMChat

10




ISU 4H Cherokee @4hISUCherokee · Apr 14
Replying to @IowaSTEM
Zoom works great #IAstemchat

3



Ronda @mccarthy102195 · Apr 14
Replying to @IowaSTEM
A2. We use Google Meets to connect with students during the week, each grade has a set time to log on and join a meeting everyday and each subject teacher hosts the meeting so Monday is Math, Tuesday is Science etc. we record the meetings to share with absent students #IaSTEMchat

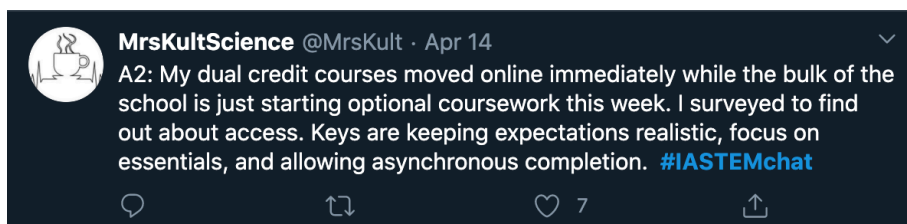
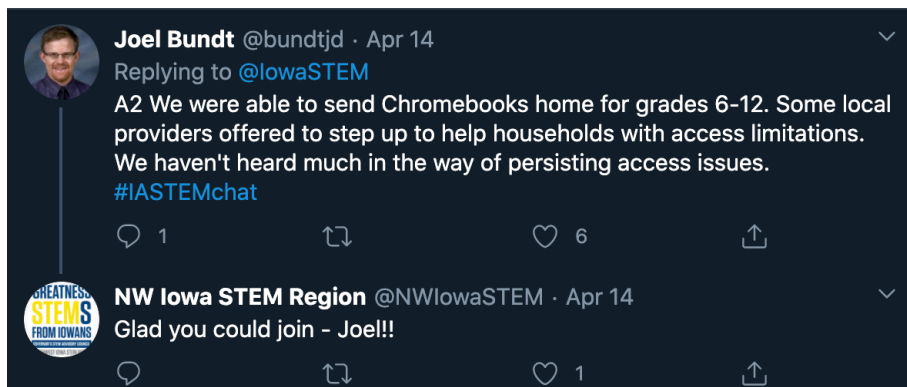
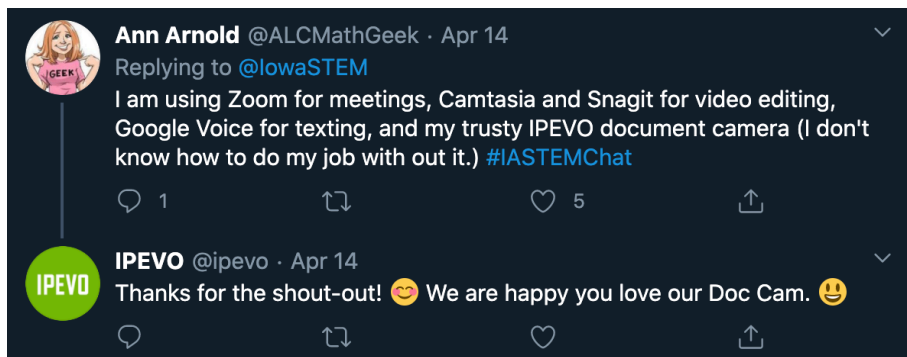
3



Laura Williams @mrswilliams21c · Apr 14
Replying to @IowaSTEM
We like @zoom_us and is great because you can call in if needed. Hosting digital classrooms / sessions. Regular zoom rooms hold 300 people & webinars 10K (fact check? Lol) I've also seen some schools provide hot spots in their communities to help w/internet access. #IASTEMchat

4

Q2: How are you solving technology access and capacity challenges? #IASTEMchat




Q2: How are you solving technology access and capacity challenges?

#IASTEMchat

**SW Iowa STEM Region** @SW_Iowa_STEM · Apr 14
Replying to @IowaSTEM
Q2 There are folks who have been doing packet sharing. I would like to see what those contain just as a point of reference. Anybody who can give insight it would be appreciated. #IASTEMchat


**Alison Mohr** @mohr_alison · Apr 14
I know it varies by district, but Carlisle has the resources posted by grade/content level. The secondary platform contains the information that is printed and mailed to students as packets. Some are activities, others are worksheets

**Carlisle Community Schools - First Grade**
[sites.google.com](#)


**SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Looks like an awesome resource across all content areas!

**Michele Williams** @MsWill_SWV · Apr 14
Replying to @mohr_alison @SW_Iowa_STEM and @IowaSTEM
SWV has the same thing. Each elementary, the middle school, and the hs have separate documents that are then separated by grade or subject and that is where teachers are putting their "voluntary enrichment activities" for parents, then these docs are put on school website

Q3: What are you doing to make sure young learners of special needs are being served? #IASTEMchat

 **Michele Williams** @MsWill_SWV · Apr 14
Replying to @IowaSTEM
A3: Our sped team has been incredibly open to help everyone find activities that can be done at home. They are seriously doing way more work than me and I praise them HARD CORE for this!! #IASTEMchat

1 1 13

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14

 **Cedar Falls CAPS** @CF_CAPS · Apr 14
Replying to @IowaSTEM
A3: Health/safety is our #1 priority. With this in mind we have reached out to all students & families to assess needs. We leveraged multiple resources to provide the supports necessary for students to engage in various learning opportunities provided by the district #IASTEMchat

6

 **Jeffrey Weld** @JdWeld · Apr 14
Replying to @IowaSTEM
A3 Iowa's Dept of Ed provides at-home resources for kids with disabilities, such as bit.ly/2K7YqJP #IASTEMchat

4 11

 **Laura Williams** @mrswilliams21c · Apr 14
Replying to @IowaSTEM
A3 @GPAEA and other @iowa_aea have been putting together online professional learning events to help equip teachers with tools & supports to be able to support ALL students during this covid19 time. docs.google.com/document/d/1ha... #IASTEMchat



Title	Link	Sign up/Registration
Future Ready Learning Opportunities Playlist Spring 2020		


Future Ready Learning Opportunities Playlist Spring 2020
Statewide FUTURE READY PLAYLIST *Insert opportunity by creating a new row above or below ...
docs.google.com

4 16


 **Jeffrey Weld** @JdWeld · Apr 14
Replying to @IowaSTEM
A3 ... along these lines, registration now open for "Fostering Equity in the STEM Classroom" workshop in June --> iowaSTEM.gov/EquityWorkshop #IASTEMchat

2 8


Q3: What are you doing to make sure young learners of special needs are being served? #IASTEMchat

 **Michele Williams** @MsWill_SWV · Apr 14
Replying to @IowaSTEM
A3: Check out [@legendlearning](#) for activities. A colleague of mine has been using it for science and I checked it out. They are game-based activities and you can choose by standard. I'm liking it because it gives instant feedback. #IASTEMchat


1 11

 **Joel Bundt** @bundtjd · Apr 14
Replying to @IowaSTEM
We have resource teachers, aids, and principals making multiple contacts a week with households of special needs students. Many of our elementary classrooms sent printed materials home to students so that all had resources. #IASTEMchat

7

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @IowaSTEM
A3: We support educators that we work with as needed to help them think through ways to continue offering supports to students. Coming up with multiple ways to deliver content just as they would in the classroom is still important now. #IASTEMchat

1 6


 **Samantha Dahlby** @dahlbys · Apr 14
A3: It's also important to consider how we support families on how to move their student's learning forward right now. Lots of empathy and compassion. #IASTEMchat

7


 **Alison Mohr** @mohr_alison · Apr 14
Replying to @IowaSTEM
Q3 - Trying to find activities that are open-ended with multiple access points. Also more frequent check-ins with families from different teachers. #IASTEMchat

9


Q3: What are you doing to make sure young learners of special needs are being served? #IASTEMchat

**SC Iowa STEM Region** @SC_Iowa_STEM · Apr 14
Replying to @IowaSTEM
Q3: Many youth from low-income families have taken on jobs or childcare responsibilities during school closure. Asynchronous learning opportunities helps them. #IASTEMchat


2 11

**Ashley Flatebo** @aflatebo · Apr 14
Flexibility is key during this time for all involved: families, teachers, students! #IASTEMChat


5

**Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @SC_Iowa_STEM and @IowaSTEM
Great point! #IASTEMchat

3

**Darin Johnson** @darin_johnson · Apr 14
Replying to @IowaSTEM
A3: Our sped teachers are setting up individual Hangouts with students and families to interact and help parents access the online resources that meet their needs. ELL teachers are using Flipgrid to interact with our English Learners. #IASTEMchat

1 11


**NW Iowa STEM Region** @NWIowaSTEM · Apr 14
So smart to do this - individualized attention continues even with social distancing! Awesome!

1

**MrsKultScience** @MrsKult · Apr 14
A3. This is a great question! Reaching out and being accessible to each individual student and identifying what works for them. Build in the appropriate supports. #IASTEMChat

3

Q3: What are you doing to make sure young learners of special needs are being served? #IASTEMchat

**Ashley Flatebo** @aflatebo · Apr 14
A3: Helping teachers think through accessibility tools that are available and collaborating to ensure that all needs are being met through online course development and webinars #forallkids #IASTEMChat

Accessibility

Providing *all* students access to any curriculum you may be sharing with students should be a priority! This can be difficult through technology.

There are many tools that can help you ensure that you are meeting the needs of your students to ensure that you are meeting their needs and/or personal needs.

[Google Tools to Level the Playing Field](#)





Accessibility


Not only should IEP and personal learning needs be considered, but cultural needs should be addressed as well.





Tips for working in a culturally diverse environment:


- Keep the language standard and cultural references to a minimum
- Make expectations about online learning clear
- Be accessible
- Avoid making generalizations about individuals
- Understand your target audience





Reminder: You know these students! Use that knowledge to support them in a new environment


 1  2  15 





**SC Iowa STEM Region** @SC_Iowa_STEM · Apr 14
Replying to @aflatebo
Is that a link in your graphic? "Google Tools..."? Could you share it? I'd love to check it out.

 1   


**Ashley Flatebo** @aflatebo · Apr 14
Just sent you an email :)

 1   


**SC Iowa STEM Region** @SC_Iowa_STEM · Apr 14
Got it. Thank you! Can't wait to dive in.


Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat

 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @IowaSTEM
From a business prospective supporting youth #STEM, looking for more ways to effectively enable, virtual volunteering such as classroom speakers, reviews of projects, job shadowns, etc. #IASTEMChat


1 1 8

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Perhaps interactive virtual reality tours of local industries especially for younger students. #IASTEMchat


1 5

 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
A4: Yes, we have been discussing recently since no tours are now allowed & the minimum age requirements. #IASTEMChat


1 2

 **Samantha Dahlby** @dahlbys · Apr 14
Workplace Learning Connection at Kirkwood is working on virtual job shadowns, tours, etc. right now as their programs for students have been impacted: kirkwood.edu/wplc


1 3

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
Replying to @IowaSTEM
A4: The pandemic has helped to build the connection from school to home. Parents have gained a deeper awareness of the content their children are learning and how. More STEM, more CS, hands-on projects, more collaboration, etc. Hopefully parents will stay connected. #IASTEMchat


2 1 14

 **Samantha Dahlby** @dahlbys · Apr 14
This is so true! Better awareness and appreciation for all of the thought and planning that goes into every day. How can/should schools continue this post-pandemic?

1

 **SE Iowa STEM Region** @STEM_SE_Iowa · Apr 14
And how can parents continue their educational engagement during the summer months to prevent learning loss


1 2

 **Samantha Dahlby** @dahlbys · Apr 14
Yes!

Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat

 **ISU 4H Cherokee** @4hISUCherokee · Apr 14
Replying to @IowaSTEM
I feel I have gained more resources. #IASTEMchat
2 4

 **Joel Bundt** @bundtjd · Apr 14
Replying to @4hISUCherokee and @IowaSTEM
I'm spending a significant amount of time looking for quality online resources. It takes significant time to filter and identify the quality ones.
1 1

 **Iowa STEM** @IowaSTEM · Apr 14
Replying to @4hISUCherokee
That's great to hear! That was our goal! Would you be interested in more Twitter chats in the future?
2 1

 **Darin Johnson** @darin_johnson · Apr 14
Replying to @IowaSTEM and @4hISUCherokee
Yes!
1 2

 **Iowa STEM** @IowaSTEM · Apr 14
Glad to hear it! Thanks for participating!
1 1

 **Hannah M** @morzh · Apr 14
Replying to @IowaSTEM and @4hISUCherokee
👩 I would! #IASTEMchat
1 1

 **Iowa STEM** @IowaSTEM · Apr 14
Good to know! We've enjoyed the conversation tonight!
1 1

 **Jordan Menning** @JordanMenning · Apr 14
Replying to @IowaSTEM
A4: it has brought equity to the forefront of what we do. Before it was more talk. Now it is being addressed more than ever bc of COVID19. Looking forward to building on that momentum! #IASTEMchat
1 19

Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat

 **Joel Bundt** @bundtjd · Apr 14
Replying to @IowaSTEM
We are finding that teachers are venturing out and trying things they wouldn't normally had the time or motivation to organize. They are crafting online activities and experiencing some efficacy through their efforts. #IASTEMchat

4 16

 **Ann Arnold** @ALCMathGeek · Apr 14
I am definitely thinking outside the box right now. #IASTEMChat


4

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @bundtjd and @IowaSTEM
Think of all the new things they'll have in their tool kit! Some silver lining in the situation. Everyone is having to learn at the same time. Everyone is in the same predicament.


1 1

 **Caroline Rankin** @clgrankin · Apr 14
So true!

 **MrsKultScience** @MrsKult · Apr 14
Replying to @bundtjd and @IowaSTEM
That's me! 🙋 Learning lots!


 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @IowaSTEM
A4: We are trying to soak in as much learning as possible right now & keep the best parts. This may be Virtual CoderDojos if bad weather prevents in-person events, 1/2

1 2


 **Samantha Dahlby** @dahlbys · Apr 14
A4 continued: working with teachers in our workshops on virtual computer science opportunities so that learning doesn't have to stop on snow days, and how to better communicate in general using a variety of tools. #IASTEMchat

1 8

Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat

 **Cedar Falls CAPS** @CF_CAPS · Apr 14
Replying to @IowaSTEM
A4: Interesting question with lots of speculation. Potential to open a lot more doors to a 21st century approach to K-16 education.


1 4

 **Ann Arnold** @ALCMathGeek · Apr 14
Yes, a lot authentic opportunities could be taken advantage of right now, if the students were aware. #IASTEMChat


4

 **Jeffrey Weld** @JdWeld · Apr 14
Replying to @IowaSTEM
A4 (not an answer but a question - sorry!) How can Iowa's STEM Council help educators adapt/re-set/ after coronavirus? #IASTEMchat

3 2

 **Cedar Falls CAPS** @CF_CAPS · Apr 14
Replying to @JdWeld and @IowaSTEM
By being at the forefront of the innovation that will come from this. With all major events comes great opportunities for reimagining and growth from how things used to be to how things will be.


2

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @JdWeld and @IowaSTEM
1. Is there a good way to collect best practices (not just sites/resources) that we all learn from this situation?
2. How can the STEM Council model adapting for our educators?
3. How can we all practice & use the skills & modifications being made now, post-pandemic?

1 2

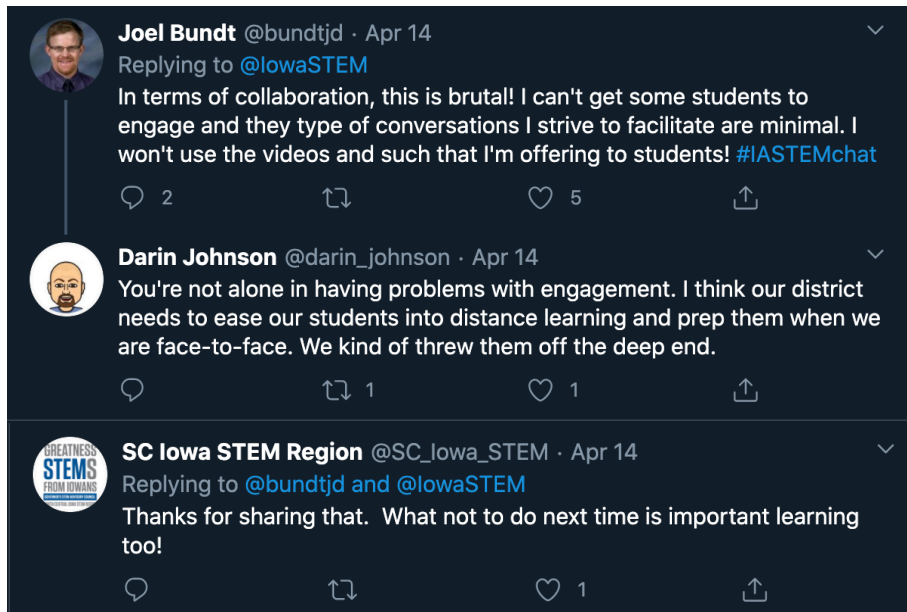
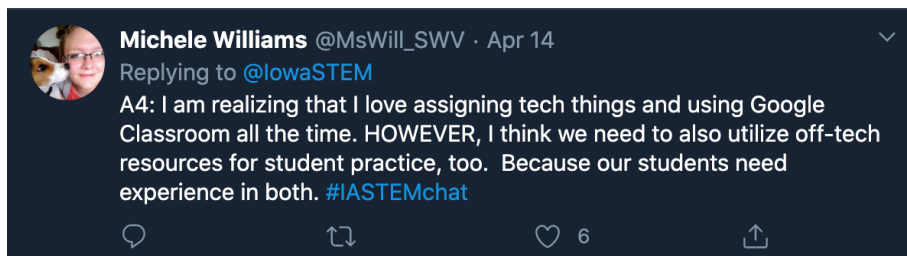
 **Samantha Dahlby** @dahlbys · Apr 14
This is a prime opportunity for innovation in education! How can we help districts see the opportunities alongside the fast paced solutions needed now?

1


 **Joel Bundt** @bundtjd · Apr 14
Replying to @JdWeld and @IowaSTEM
It seems a high-level view of what is effective learning and what isn't so effective will be needed. Content delivered does not necessarily equate to content learned. Are there ways to facilitate good student-to-student conversations?


1


Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat





Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat


 **Darin Johnson** @darin_johnson · Apr 14
Replying to @IowaSTEM
A4: The abrupt closure made our district realize how much work we have to do to get our distance learning up to speed. The goal: Snow days will eventually become a "regular" day of school with high quality instruction and interaction. #IASTEMchat
2 15


 **Ann Arnold** @ALCMathGeek · Apr 14
I am not sure I am a fan of that goal. Nothing can replace an actual teacher. #IASTEMchat
1 1

 **Darin Johnson** @darin_johnson · Apr 14
Agreed. But a snow day shouldn't mean that learning shuts down entirely.
1


 **Ann Arnold** @ALCMathGeek · Apr 14
True. Very true.

 **Samantha Dahlby** @dahlbys · Apr 14
Replying to @darin_johnson and @IowaSTEM
I was surprised to learn that some other states already had a framework in place for snow days and in service days. I think this situation is pushing all of us in this direction.
1


 **SW Iowa STEM Region** @SW_Iowa_STEM · Apr 14
Replying to @IowaSTEM
This really has demonstrated how important networking of all kinds is. And also it made some telephone calls important again when other tech was not there. #IASTEMchat
1 8

 **Darin Johnson** @darin_johnson · Apr 14
Couldn't agree more. We have to use every means at our disposal to reach out to students and families.
1

Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat

 **Mike Kuennen** @MikeSKuennen · Apr 14
Replying to @IowaSTEM
A4: At least we (students/staff/parents/business partners) can envision what a pandemic looks like and why we need to invest resources in some type of "distance learning" model. Expect the best, but prepare for the I completely believe we will be better for this. #IASTEMchat

1 10

 **Ashley Flatebo** @aflatebo · Apr 14
Agreed! #growthmindset #IASTEMChat

2


 **Joel Bundt** @bundtjd · Apr 14
Replying to @IowaSTEM
A4 Just today found [youtube.com/channel/UCYO_j...](https://www.youtube.com/channel/UCYO_j...) Haven't found anything better for #hs #math instructional videos.

 **3Blue1Brown**
3blue1brown, by Grant Sanderson, is some combination of math and entertainment, dependin...
[youtube.com](https://www.youtube.com)


2

 **MrsKultScience** @MrsKult · Apr 14
A4. Post-pandemic, one thing is we need to keep leaning into social-emotional learning. #IASTEMchat


1 7

 **NW Iowa STEM Region** @NWlowaSTEM · Apr 14
#IASTEMchat
4) I think we will have many challenges in the future, use this time to stay positive, connected, and practice your STEM skills: collaboration, communication, problem solving, and creativity!!

1 10

 **Chris Cournoyer** @CournoyerIA · Apr 14
Replying to @IowaSTEM
A4: continuing to expand broadband access across the state. Access for all!

1 2

 **bmckone** @bmckone · Apr 14
Great idea!!

1

Q4: Post-pandemic, how do you think this will affect your professional practices going forward? #IASTEMchat



The screenshot shows a Twitter thread on a dark background. It features six tweets from users @ALCMathGeek, @darin_johnson, and @bundtjd. Each tweet includes a circular profile picture, the user's name and handle, the date 'Apr 14', and the text of the tweet. Interaction icons for replies, retweets, and likes are visible below each tweet. The thread discusses the use of video recording tools like Camtasia and Microsoft Teams for creating instructional content.

Ann Arnold @ALCMathGeek · Apr 14
Replying to @IowaSTEM
A4: I have learned how to create instruction videos quickly. I have learned about how to working with younger students vs. high schoolers. I am more compassionate and thankful of everyone. We are all in this together. #IASTEMChat

Darin Johnson @darin_johnson · Apr 14
What's your go-to tool for creating instruction videos?

Ann Arnold @ALCMathGeek · Apr 14
Replying to @darin_johnson and @IowaSTEM
I use camtasia. It can record using the webcam and the screen at the same time so the view can see the "teacher" and visual. #IASTEMChat

Darin Johnson @darin_johnson · Apr 14
Thanks for the tip!

Joel Bundt @bundtjd · Apr 14
Replying to @darin_johnson @ALCMathGeek and @IowaSTEM
I found Microsoft TEAMS to be surprisingly good. One HUGE bonus is that the recordings are automatically stored in Microsoft STREAM and accessible to all students in my class. The sharing happens automatically for me :-)

Ann Arnold @ALCMathGeek · Apr 14
Good to know. Slack is great but the free account has storage limits. #IASTEMChat

Post-Chat



Post-Chat


 **Ashley Flatebo** @aflatebo · Apr 14
Replying to @IowaSTEM
Thanks for hosting this chat! #IASTEMChat




1 7

 **Iowa STEM** @IowaSTEM · Apr 14
Thank you for participating! Great discussion tonight.


1

 **Patrick O. Barnes** @PatrickOBarnes · Apr 14
Replying to @IowaSTEM
Thanks very much for hosting! #IASTEMchat Stay safe & healthy!


1 2

 **Iowa STEM** @IowaSTEM · Apr 14
Thanks for your input! It was a great conversation!

1

 **Jeffrey Weld** @JdWeld · Apr 14
Replying to @IowaSTEM
Thanks all! Let's do it again soon. #IASTEMchat

8

 **Ann Arnold** @ALCMathGeek · Apr 14
Replying to @IowaSTEM
Thank you for the great ideas and insights! #IASTEMChat

1

 **Darin Johnson** @darin_johnson · Apr 14
Replying to @IowaSTEM
Thank you all! I enjoyed our time together.

Post-Chat

