



#InventEdChats

January 20th, 7:00 - 7:30 PM ET

**Getting Started in
Invention Education**

Hosted by **Doug Scott**
STEM Educator

inventEd
inventioneducation.org

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Getting Started in Invention Education

#InventEdChats

*Hosted By **Doug Scott***

InventEd Retweeted



InventEd
@InventEdNetwork



Don't miss the first [#InventEdChats](#) Twitter Chat tonight at 7pm ET for the opportunity to network with fellow educators + [#InventionEducation](#) advocates for ideas, activities and resources to get started with [#InventionEducation](#). Moderated by [@MrScottBot](#).

A promotional graphic for a Twitter chat. It features a circular profile picture of Doug Scott, a man with glasses and a goatee, wearing a light blue shirt and a dark tie. To the right of the photo, the text reads: '#InventEdChats', 'January 20th, 7:00 - 7:30 PM ET', 'Getting Started in Invention Education', and the 'inventEd' logo with the website 'inventioneducation.org' below it.

#InventEdChats
January 20th, 7:00 - 7:30 PM ET
**Getting Started in
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Hosted by **Doug Scott**
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inventioneducation.org

Getting Started in Invention Education - InventEd

Join the InventEd Network for the first InventEd Twitter Chat, moderated by educator Doug Scott. Interact with K-12 educators, nonprofit leaders, ...



InventEd
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[#InventEdChats](#) Eureka!



7:00 PM · Jan 20, 2022 · TweetDeck



Mr. Scott 🤖 @mrscottbot · 16h

Replying to @InventEdNetwork

Intro yourselves...always include #InventEdChats in our chat tonight :)



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Dave (he/él) Jackson @Jackson_DavidW · 16h

Dave Jackson w/ @WalthamSchools, @BostonCollege, @BrandeisU - designing and implementing invention education in middle schools with @LemelsonMIT #InventEdChats



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4



Mr. Scott 🤖 @mrscottbot · 16h

Long time no see Dave! Welcome



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Dave (he/él) Jackson @Jackson_DavidW · 16h

Thanks, good to see you, Doug! I've been busy dissertating (about invention education) and job searching (for science and engineering education)



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2



Mr. Scott 🤖 @mrscottbot · 16h

Sweet, glad you are still in the game #InventEdChats



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Clara Mabour @claramabour · 16h



Replying to [@InventEdNetwork](#)

Clara| invention education administrator

[@Lemelson](#)

, working with the 8 2022 InvenTeams

[#InventEdChats](#)



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2



Mr. Scott  @mrscottbot · 16h



Ah yes I remember it well! Hi Clara [#InventEdChats](#)



2





InventEd
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#InventEdChats Hosting!

inventEd
#InventEdChats



We are extremely
excited to have
@mrscottbot as host
tonight as we innovate
and invent student
experiences together
on #InventEdChats

7:01 PM · Jan 20, 2022 · TweetDeck

3 Likes





Mr. Scott 🤖 @mrscottbot · 16h



Replying to @InventEdNetwork

Always refresh on "Latest" when searching #InventEdChats





InventEd
@InventEdNetwork



Search [#InventEdChats](#) on Twitter for the latest chat tweets and follow this format to participate! Reply to the Qs and also to each other :)



7:03 PM · Jan 20, 2022 · TweetDeck

2 Likes

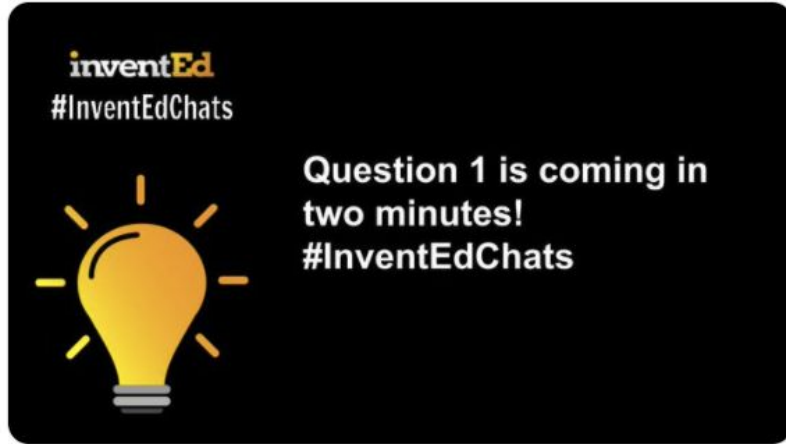




InventEd
@InventEdNetwork



Here we go [#InventEdChats](#) we got this!



7:05 PM · Jan 20, 2022 · TweetDeck

1 Retweet 5 Likes



InventEd Retweeted



Mr. Scott

@mrscottbot

#InventEdChats Q1



Invention Education (IE) which integrates student driven innovation into existing pedagogy, enhances both the educator and student experience. For educators, it can revitalize their practice and add an enhanced layer to students' STEM knowledge and abilities. If you are new, what interests you about IE or this type of teaching? If you have facilitated IE, how did you first get started?
#InventEdChats

7:07 PM · Jan 20, 2022 · TweetDeck

1 Retweet 3 Likes





Juan Valentin @Borinkito · 16h



Replying to @mrscottbot

A1: Leading hands on activities in Washington DC elementary schools was where it all began for me. Using STEM principles to bridge the intro to patents & intellectual property. Newton's third law & patents for rockets, them making stomp rockets! 🚀 #inventEdChats



Mr. Scott 🤖 @mrscottbot · 16h



Stomp rockets would certainly catch their attention. You have to make inventing fun and you do Juan #InventEdChats





Dave (he/él) Jackson @Jackson_DavidW · 16h

...

Replying to [@mrscottbot](#)

A1 I got started through [@mike_barnett_BC](#) meeting [@LemelsonMIT](#) folks at the Mass. STEM Summit in 2016... been adopting and adapting their curricula many times since in classes, clubs, and camps (and now dissertating about it all) [#InventEdChats](#)



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4



Mr. Scott  @mrscottbot · 16h

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Have you enjoyed it? I am assuming so as you have stuck with it. As Leigh always says, Inventing is just plain fun [#InventEdChats](#)



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Dave (he/él) Jackson @Jackson_DavidW · 16h

...

Very much so, and more importantly, so have the middle-schoolers and teachers / advisors / facilitators :)





julie sickspanus @j6panus · 16h



Replying to @mrscottbot

A1: I'd like to do more of this, but try to have a inventive/innovative element to many challenges. #inventedchats



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4



Mr. Scott 🤖 @mrscottbot · 16h



Originality brings a lot of ownership to student projects for sure
#InventEdChats



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2





Clara Mabour @claramabour · 16h

...

Replying to @mrscottbot

A1: I started by doing "lab in a bag," basically grab bag inventing/rapid prototyping with my biology classes

[#InventEdChats](#)



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Mr. Scott 🤖 @mrscottbot · 16h

...

The grab bag, simple, cheap and ready to go. Yes IE does not have to be extravagant. You can always scale up, have to start with simple things.

After all the concepts are what is important, not the "stuff". Kind of like people :) [#InventEdChats](#)



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Clara Mabour @claramabour · 16h

...

Well said Doug! And using cheap or recycled materials is a great equalizer in a diverse classroom



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Mr. Scott 🤖 @mrscottbot · 16h

...

I have been known to be upside down in a trash barrel or two during the day looking for good gear :) Was in there today. [#InventEdChats](#)



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2



Clara Mabour @claramabour · 16h

...

I have to know, what is the coolest thing you found??



InventEd Retweeted



Mr. Scott
@mrscottbot



#InventEdChats A1

***A1: I FIRST GOT STARTED WITH INVENTION ED THROUGH A LEMELSON-MIT GRANT WHERE I HAD AN INVENTEAM LATER INVENT AND EVENTUALLY PATENT A FIRST RESPONDER RECOVERY DEVICE.
#INVENTEDCHATS***



7:09 PM · Jan 20, 2022 · TweetDeck

1 Retweet 3 Likes



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Mr. Scott

@mrscottbot

#InventEdChats Q2



What has been the hardest part in building your own hands-on/technical skills that are needed for facilitating Invention Education and/or project based learning? The easiest? What might you share about the challenges you faced and how you overcame them with people who are seeking to build hands-on/technical skills?
#InventEdChats

7:12 PM · Jan 20, 2022 · TweetDeck

1 Retweet 2 Likes





Dave (he/él) Jackson @Jackson_DavidW · 17h



Replying to @mrscottbot

A2 The hardest technical thing for me was when I got prototyping boards (“breadboards”) & 3-way switches that were different than those in the guide... @LemelsonMIT connected me with a more experienced invention educator, who helped me help campers #InventEdChats



Mr. Scott 🤖 @mrscottbot · 16h



Breadboards are a bit abstract at first. With all of these things it takes a few blown fuses, mistakes and eventually you get there. Way to stick with it, as it paid off. #InventEdChats





Chelle Myrann @myrann_c · 17h



Replying to [@mrscottbot](#)

Research is important, but actual functioning parts involve a good bit of...almost there, failure, begin again, and resilience



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Juan Valentin @Borinkito · 16h



Replying to @mrscottbot

A2: learning things like how to incorporate different elements like computing devices where I needed to learn coding, that's where trainings like #picademy were amazing in opening up a whole new world of possibilities for my educational engagement with learners #InventEdChats



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Mr. Scott 🤖 @mrscottbot · 16h



Right, those resources are out there. Seems that the biggest thing is getting adults to stop saying... I can't do that and start saying...I can't do that yet! #InventEdChats



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2



Juan Valentin @Borinkito · 16h



Right! The fact is, learning is fun! At least that what we tell our learners. And it is! Learning never ends. #InventEdChats



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Mr. Scott 🤖 @mrscottbot · 16h



Not for me at least, I am a slow learner :) I don't think I will ever figure things out completely. #InventEdChats



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julie sickspanus @j6panus · 16h



Replying to @mrscottbot

A2: as an industrial arts major, I got the hands-on technical stuff, but more updated coding-type things not so much. [#inventedchats](#)



Mr. Scott 🤖 @mrscottbot · 16h



The nice part is it is all out there now and the entry point has options, including novice. Coding is not an exclusive club anymore. [#InventEdChats](#)





Clara Mabour @claramabour · 16h



Replying to @mrscottbot

Working on mechanical projects was exciting for me and easy for me to get going. I am still nervous about learning how to code/microcontrollers/project boards. I started by learning how to solder and making simple circuits on PCB boards...this is where I am now.

[#InventEdChats](#)



3





Danny Briere @Danny_Briere_ · 16h



Replying to [@mrscottbot](#)

A2: we have forged partnerships with local entities to help us deal with technical issues. Places like maker spaces and colleges have lots of people willing to help kids. We have also worked with people like Amazon to come in and do workshops to help the kids [#InventEdChats](#)



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Mr. Scott 🤖
@mrscottbot



[#InventEdChats](#) Q3



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#InventEdChats

If you were to implement Invention Education into just one of your lesson plans, which one do you think it could best fit into and how? If already facilitating IE how/where did you find ways to integrate it into your curriculum? You are welcome to provide examples of established or emerging IE in your classroom. #InventEdChats

7:17 PM · Jan 20, 2022 · TweetDeck

1 Retweet 1 Quote Tweet 3 Likes





Dave (he/él) Jackson @Jackson_DavidW · 17h



Replying to @mrscottbot

A3 There's a middle-school #NGSS PE about making an insulating device, which aligns very well with the #ChillOut curriculum by @LemelsonMIT lemelson.mit.edu/curriculum-inv... (downloads free of charge)
#InventEdChats



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Mr. Scott 🤖 @mrscottbot · 16h




Yup, when you take a look at NGSS and other standards Invention Education can tie in nicely. What a great way to spruce up what could be an otherwise dull or "standard" lesson :) #InventEdChats



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 **Juan Valentin** @Borinkito


Replying to @mrscottbot

A3: so many great options. One of my favorites was work we did w/ 5th grade teacher for their [#industrialrevolution](#) project. Kids had to invent new invention representative to that time frame. Needed to research and only use materials available at that time [#InventEdChats](#)

7:25 PM · Jan 20, 2022 · Twitter for iPhone





2 Likes


   

 **Mr. Scott** @mrscottbot · 16h

Replying to @Borinkito





That is a fantastic one. So many problems associated with manufacturing etc...during that period. What a great way to study history as well [#InventEdChats](#)


   2 

 **Juan Valentin** @Borinkito · 16h





Replying to @Borinkito and @mrscottbot

A3 contd: then the students had to create a business to sell their inventions to the other 5th grade classes. They had to search patents, trademarks, create slogans all while learning history! [#InventEdChats](#)

 1   3 

 **Mr. Scott** @mrscottbot · 16h

Excellent lesson plan [#InventEdChats](#)



Clara Mabour @claramabour · 16h



Replying to @mrscottbot

A3 i strongly believe IvE is trans/interdisciplinary and I would love to see crossovers in non-STEM courses and in social science/life sciences. I tried to embed IvE concepts anywhere I could in the biology curriculum, the cell unit included my fave lessons [#InventEdChats](#)



Mr. Scott 🤖 @mrscottbot · 16h



Crossover is possible with creativity like you applied. Once a teacher gets that spark they are off and running and the kids will follow [#InventEdChats](#)





PBS NewsHour Classroom

@NewsHourExtra



Oh, good question [#InventEdChats](#) pls share your responses (okay to do after the chat ends!!). Inquiring minds want to know!

Mr. Scott @mrscottbot · 17h
#InventEdChats Q3



If you were to implement Invention Education into just one of your lesson plans, which one do you think it could best fit into and how? If already facilitating IE how/where did you find ways to integrate it into your curriculum? You are welcome to provide examples of established or emerging IE in your classroom. #InventEdChats



7:56 PM · Jan 20, 2022 · Twitter Web App

3 Likes



Tweet your reply

Reply



Mr. Scott @mrscottbot · 16h

Replying to @NewsHourExtra

And what do folks out there have for answers? [#InventEdChats](#)



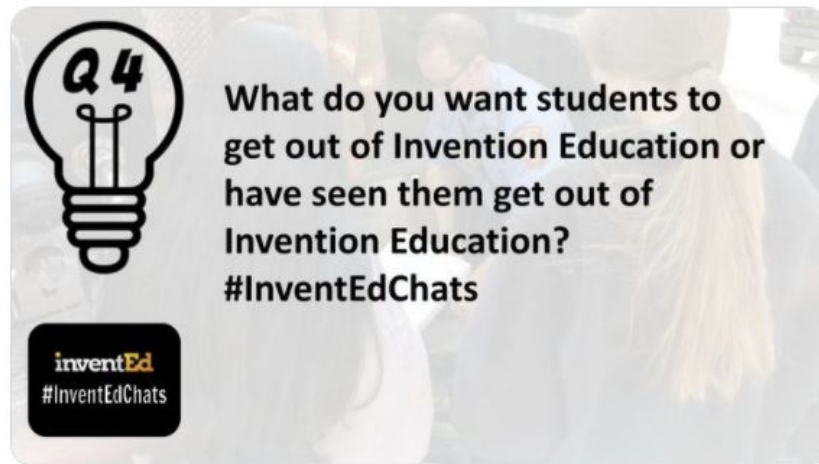
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Mr. Scott 🤖
@mrscottbot



[#InventEdChats](#) Q4



7:23 PM · Jan 20, 2022 · TweetDeck

2 Retweets 2 Likes





Monika Moorman @MrsMoorman1 · 16h



Replying to [@mrscottbot](#)

A4: increased confidence in one's ability to create, empowerment to make decisions/lead/question, improved tolerance for ambiguity and so much more! [#InventEdChats](#)



Mr. Scott  @mrscottbot · 16h



Sounds like all skills needed to be a productive and happy learner and problem solver for life . [#InventEdChats](#)





Clara Mabour @claramabour · 16h



Replying to @mrscottbot

A4 I want students to look at issues in their communities and around the world and believe they can contribute to solutions for those problems; be empathetic enough to notice, confident enough to learn and design, and audacious enough to put it to practice. [#InventEdChats](#)



Mr. Scott 🤖 @mrscottbot · 16h



Put to practice being the key. If it is just talk, it is just another block in the school day with a golf clap from peers following another powerpoint [#InventEdChats](#)





Juan Valentin @Borinkito · 16h



Replying to @mrscottbot

A4: The power of invention lives within them. The key to unlocking and harnessing that power is their mind. They need to believe in themselves. Also, the world is waiting for them to create, improve, and invent their way through life. [#InventEdChats](#)



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Mr. Scott 🤖 @mrscottbot · 16h



Agreed, once they learn process, they realize that they can tackle any problem and give it a good go. Oh, and yes the world needs to solve some problems for sure and for kids what a great way of showing them that they can make an impact directly [#InventEdChats](#)



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Dave (he/él) Jackson @Jackson_DavidW · 17h



Replying to [@mrscottbot](#)

Q4 that they *are* inventors, that inventing can mean many different things and involve many different disciplines, and it generally works best in diverse and inclusive teams [#InventEdChats](#)



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Project Invent @project_invent · 16h

...

Replying to @mrscottbot

A4 At Project Invent, we specifically focus on cultivating six student mindsets through invention education: Ambition, Resilience, Creative Confidence, Curiosity, Agency, and Empathy #InventEdChats 💡💡💡



Mr. Scott 🤖 @mrscottbot · 16h

...

Excellent, which do you think comes first for a student? or does order not matter? #InventEdChats



Project Invent @project_invent · 16h

...

Depends on the student! Every young inventor brings their own unique set of mindsets to the design process ⚙️ #InventEdChats



Mr. Scott 🤖 @mrscottbot · 16h

...

Quite right, and every situation prompts a new starting point. #InventEdChats





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Wow, you are an awesome crew! See you February 17th for our next [#InventEdChats](#)



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1 Retweet 2 Likes





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[#InventEdChats](#)



7:30 PM · Jan 20, 2022 · TweetDeck

6 Likes

