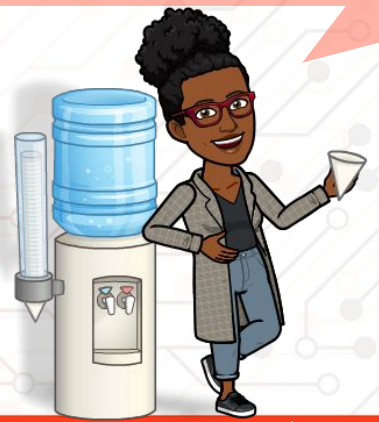
CS is Political: Blending poetry, CT, and social impact

Let's chat!
Introduce yourself and check-in by answering the question:

What is the smell of joy?



Session Norms

Participants should be mindful of the following:

1. Sessions are recorded.
2. By default, you are a viewer. Please use the chat to interact with the presenter and moderator
3. If you join on screen, please keep your microphone muted when you are not speaking with the presenter. Video is recommended but optional.
4. Remain professional and respectful. Monitor your own airtime and make sure that all voices have a chance to be heard.

Dr. Abigail Joseph

Director of Learning, Innovation, and Design

The Harker School

San Jose, CA

abigail.joseph@harker.org

CSTA Equity Fellow

CSTA Board Member

CSTA PD Committee Co-Chair

CSTA -San Mateo County
CSTA - Silicon Valley

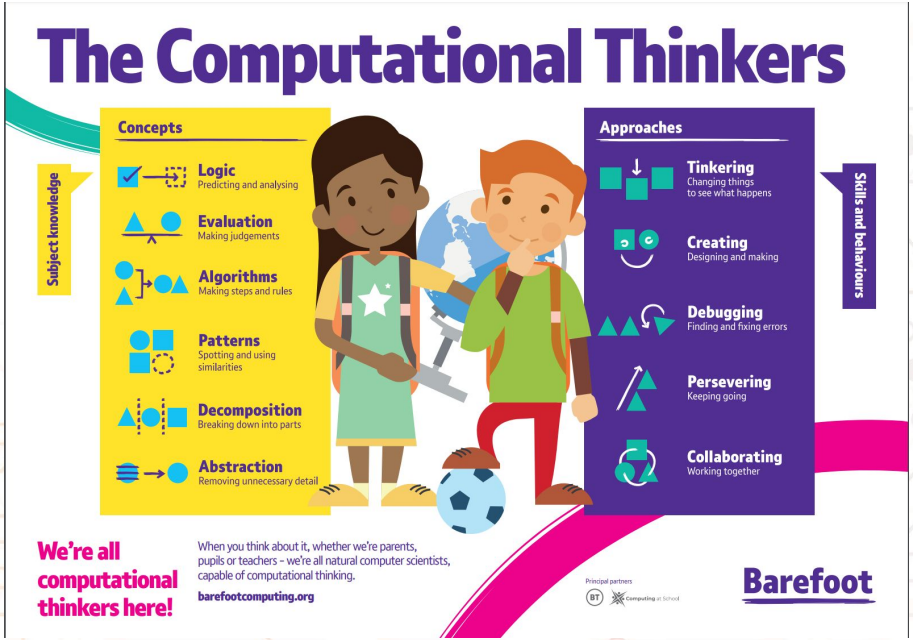
The Innovation Doctor

dr.abigailjoseph@gmail.com

Twitter: @drabigailjoseph

drabigailjoseph.com

Computational Thinking Concepts and Approaches



[Barefoot Computing Computational Thinking Poster]

Lesson One - Exploring CT Approaches

How are computational thinking approaches helpful in computer science?

- Break into small groups to create a poster
  - Connection of approach to CS
  - Pictures
  - Quotes
- Group presentations

Amanda Gorman - The Hill We Climb

Let's chat!

Where were you?
How did it make you feel?
What were you thinking?

A Twitter Challenge

Avery Pickford
@averypickford

Wow. Teachers. That poem needs to be in your curriculum. That was an amazing poem (speech) by Amanda Gorman.

9:26 AM · Jan 20, 2021 · Twitter for Android

12 Retweets **7** Quote Tweets **191** Likes

Avery Pickford @averypickford · Jan 20
Replying to @averypickford

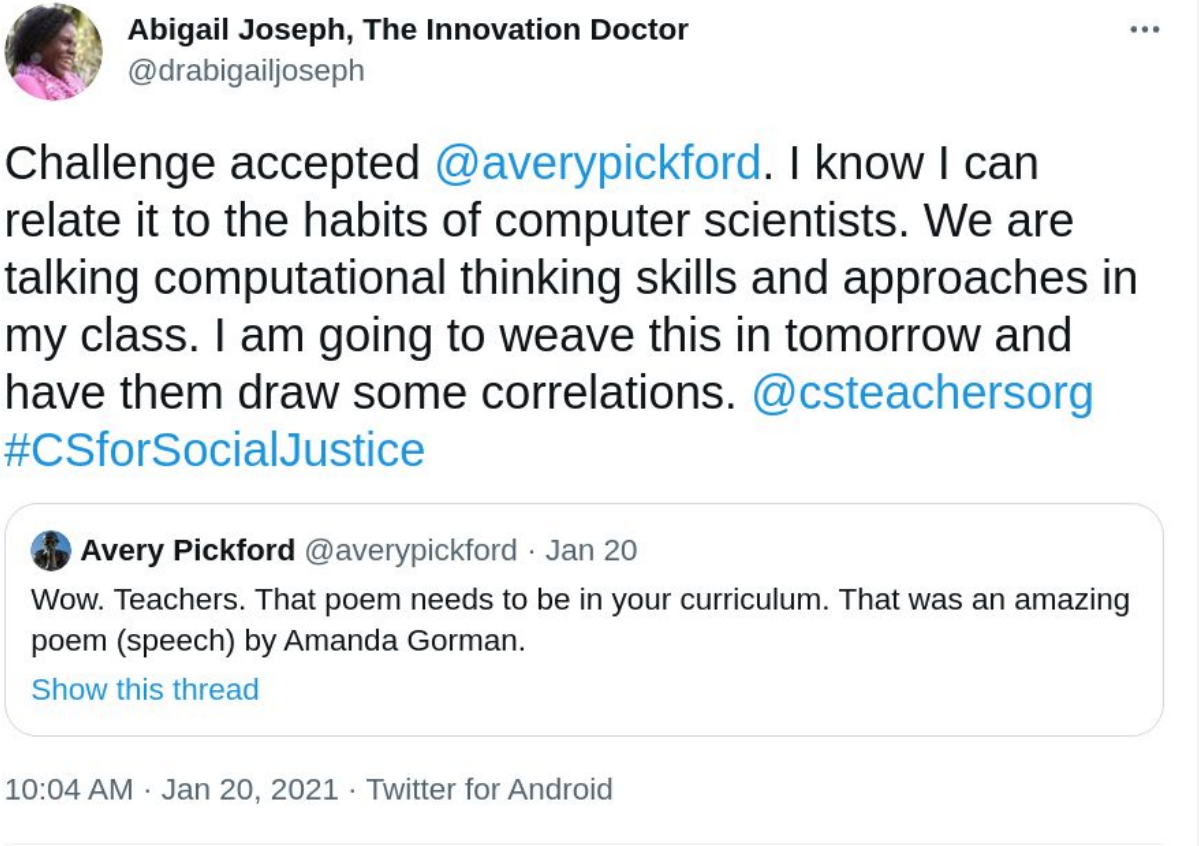
Lesson Plan: Discuss 22-year-old Amanda Gorman's inaugural poem …
In this NewsHour lesson, students will examine the message and goals of poet Amanda Gorman as she prepares to speak at the presidential …
pbs.org

2 45 123

Avery Pickford @averypickford · Jan 20
Just need to figure out what this looks like in a Calculus class. Would love any ideas. 🤔

5 13

Challenge Accepted



Abigail Joseph, The Innovation Doctor
@drabigailjoseph

Challenge accepted @averypickford. I know I can relate it to the habits of computer scientists. We are talking computational thinking skills and approaches in my class. I am going to weave this in tomorrow and have them draw some correlations. @csteachersorg #CSforSocialJustice

Avery Pickford @averypickford · Jan 20

Wow. Teachers. That poem needs to be in your curriculum. That was an amazing poem (speech) by Amanda Gorman.

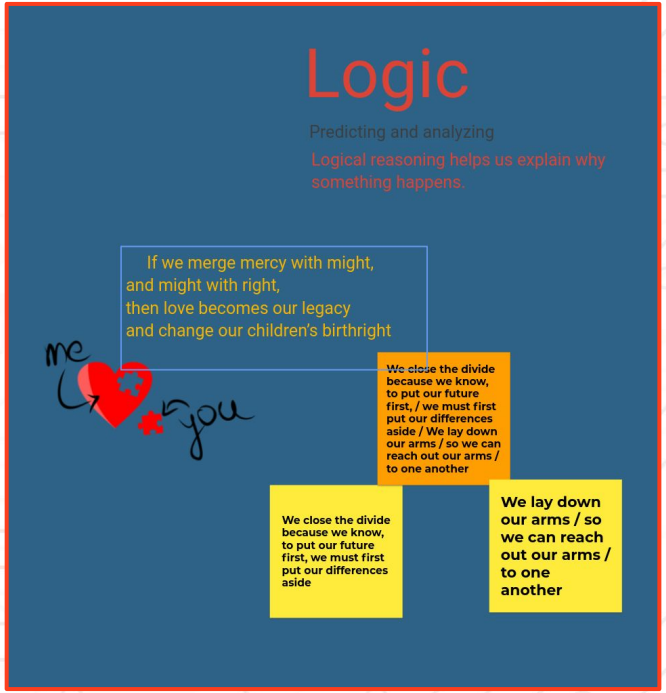
Show this thread

10:04 AM · Jan 20, 2021 · Twitter for Android

Lesson Two - Explore CT Concepts

What can we learn about computational thinking from poets?

- Watch the Inauguration Poem Video
- Provide a copy of the poem (Transcript from The Hill)
- Break into small groups to create a poster
- Connect parts of poem to the CT Concepts
- Group presentations



TED Talk - Using your voice is a political choice

Lesson 3 - Creativity, Poetry, CS Parallels

Is computer science creative and political?

- Watch Amanda Gorman's TED Talk
- Break into small groups to answer questions and create a poster
- Group presentations

What is scary about learning computer science?

Having to memorize too many things

there is a lot of competition if you are looking to find a job because so many people are learning computer science now

not knowing how to get the output you want

Also, because people have already gotten so much success with computer science previously, and the previous slides showed how much technology has helped us...

...people tend to second guess themselves and think "will i succeed too?" or something similar like "if I don't succeed, what's wrong with me?"

How can I go forward when I don't know which way I'm facing?
—John Lennon

The Hill We Climb - CS Edition

Assignment Requirements - Create a Google slide:

- A poem stanza in the style of Amanda Gorman's The Hill We Climb poem as it relates to Computational Thinking Concepts and Approaches or the questions we answered about Computer Science. Remember there is no wrong answer.
- Take a risk!
- A picture
- Decorate your slide to make it your own

Let’s continue to dream together!

CS is creative and political

Take the challenge and the inspiration

The future is ours to change

Dr. Abigail Joseph
The Innovation Doctor
dr.abigailjoseph@gmail.com
@drabigailjoseph
drabigailjoseph.com