

Let's get ready for some interaction!

Using another device (smartphone, etc.),
please go to this website:

joinpd.com

We will begin shortly...



Designing Equity-Focused Professional Development

Dr. Abigail Joseph
Charity E. Freeman
Noelle Valentine

CSTA Equity Fellows



Presenters



Dr. Abigail Joseph

CSTA Equity Fellow
*Middle School Director of
Learning, Innovation, & Design*
The Harker School
San Jose, California
edstoria.com



Charity E. Freeman

CSTA Equity Fellow
Computer Science Teacher
Lane Tech College Prep High
School
Chicago, Illinois

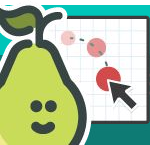


Noelle Valentine

CSTA Equity Fellow
CTE Teacher
CSTA Top of the World - President
Susitna Valley Jr/Sr High School
Talkeetna, Alaska



Enraged	Furious	Frustrated	Shocked	M	Surprised	Upbeat	Motivated	Ecstatic
Livid	Frightened	Nervous	Restless	O	Hyper	Cheerful	Inspired	Elated
Fuming	Apprehensive	Worried	Annoyed	O	Energized	Lively	Optimistic	Thrilled
Repulsed	Troubled	Uneasy	Peeved	D	Pleasant	Joyful	Proud	Blissful
M	O	O	D	M	E	T	E	R
Disgusted	Disappointed	Glum	Ashamed	E	Blessed	At Ease	Content	Fulfilled
Mortified	Alienated	Mopey	Apathetic	T	Humble	Secure	Chill	Grateful
Embarrassed	Excluded	Timid	Drained	E	Calm	Satisfied	Relaxed	Carefree
Alone	Down	Bored	Tired	R	Relieved	Restful	Tranquil	Serene



abigailjoseph | @ChariotiTeach | @nmvalentine

Students, drag the icon!

1

#CSTAEquityFellow #CSEquity

Pear Deck Interactive Slide
Do not remove this bar



Agenda

Welcome and Icebreaker!

Presentation: Designing
Equity-Focused PD

Audience Q & A



Draw or type ONE aspect of a positive PD experience:



Students, draw anywhere on this slide!

A New Perspective on Computer Science

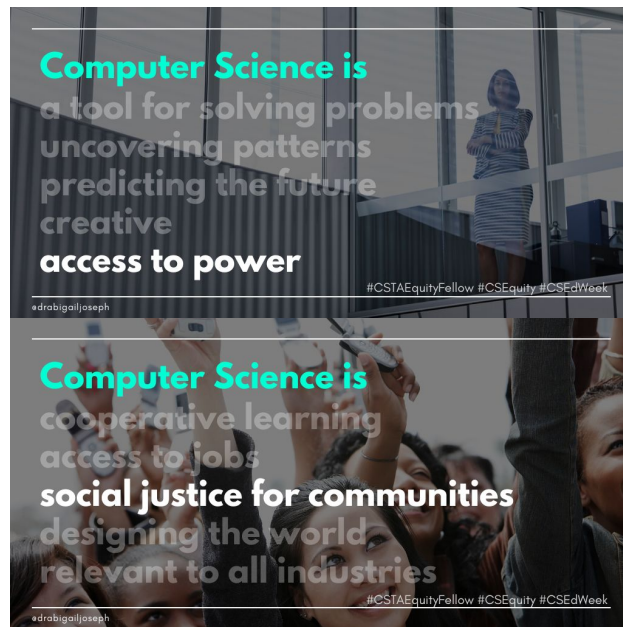
Dr. Abigail Joseph, The Harker School, San Jose, CA / edstoria

Audience:

Lurie College of Education faculty
@ San Jose State University

Format:

2-Hour Workshop

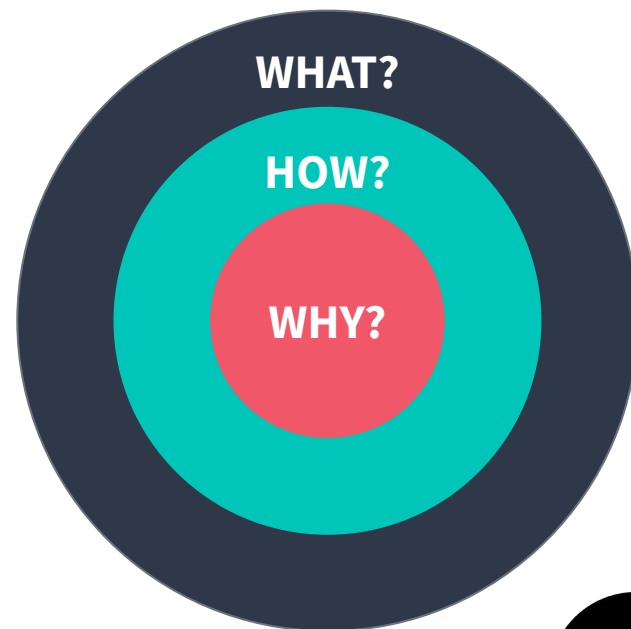


A New Perspective on Computer Science

Dr. Abigail Joseph, The Harker School, San Jose, CA / edstoria

Content:

- Why is teaching CS in the K12 important?
- What is CS in all its complexities?
- How might one integrate CS into K12 curriculum?



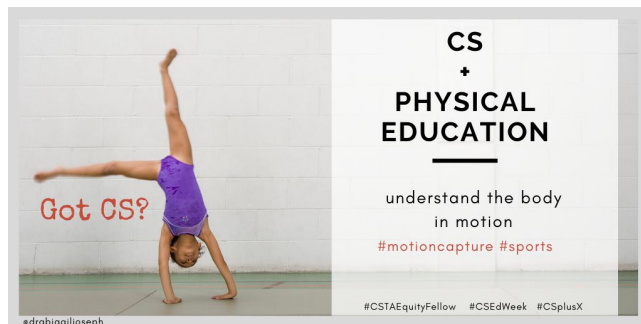
A New Perspective on Computer Science

Dr. Abigail Joseph, The Harker School, San Jose, CA / edstoria

Outcome:

Broaden definition of computer science.

Believe that CS should be a part of every students education and can be integrated to X-curriculum.



Computer Science Content Seminar

Dr. Abigail Joseph, The Harker School, San Jose, CA / edstoria

Audience:

Lurie College of Education pre-service teachers and alumni @ San Jose State University & local area teachers

Format:

6-week seminar (2 hours a week in person)

Become a Teacher

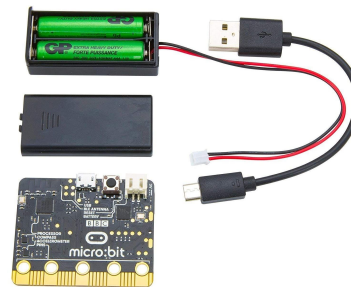
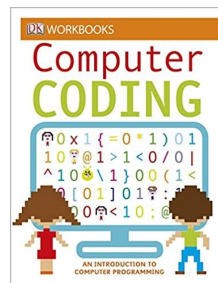
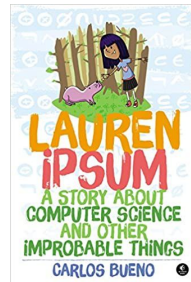


Computer Science Content Seminar

Dr. Abigail Joseph, The Harker School, San Jose, CA / edstoria

Content:

- Why teach CS?
- How do you teach CS?
- Introduction to programming through Scratch, Python, and micro:bit
- CS+X: What's the integration?



Computer Science Content Seminar

Dr. Abigail Joseph, The Harker School, San Jose, CA / edstoria

Outcome:

Broaden definition of CS. Envision themselves as a CS educator.

Empowered to introduce CS concepts into any classroom discipline.



Lurie College
Computer
Science
Education Badge



ECS Unit 0 PD: Focus Group and Workshop

Charity Freeman, Chicago Public Schools, Illinois

Audience: ECS teachers
+ paraprofessionals

Format: 2-day focus group,
3-day workshop
(in-person → virtual)



Exploring
Computer
Science



ECS Unit 0 PD: Focus Group and Workshop

Charity Freeman, Chicago Public Schools, Illinois

Content: Introductory
“Set the Tone” Unit to
ECS curriculum

Outcome: Focus group:
SY 2020-21. Pilot
workshop: SY 2021-22.



CS Playground: Equity & Exploration

Noelle Valentine - Susitna Valley Jr/Sr High, MSBSD, Alaska

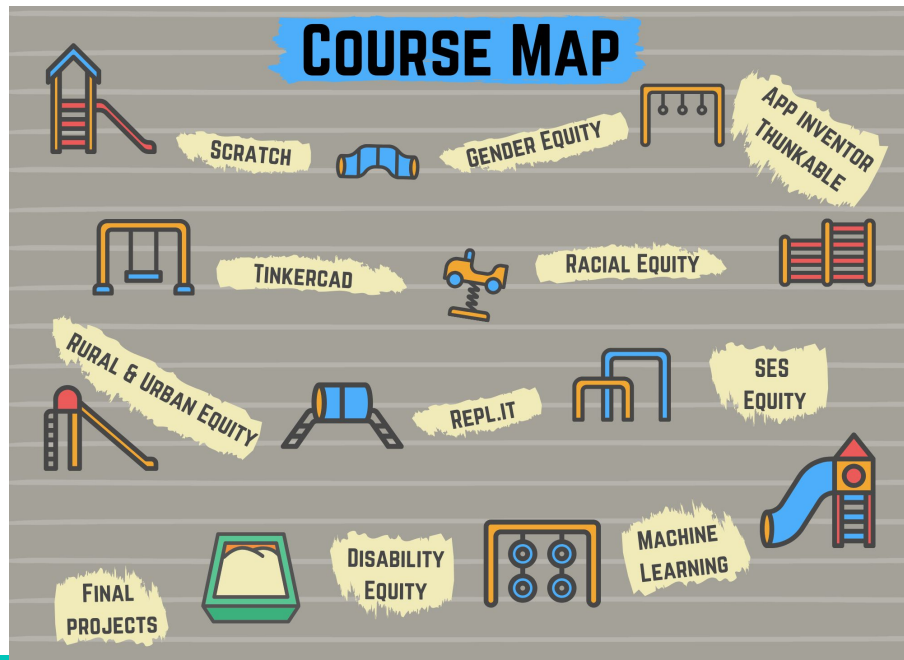
Audience: CS educators in
Matanuska-Susitna Borough School
District in Alaska

Format: 1-credit CE with
assignments released weekly on
Google Classroom over the course of
a semester.



CS Playground: Equity & Exploration

Noelle Valentine - Susitna Valley Jr/Sr High, MSBSD, Alaska



Content: Assignments alternate between synchronous/asynchronous equity discussions and creative coding projects on a variety of popular platforms.



CS Playground: Equity & Exploration

Noelle Valentine - Susitna Valley Jr/Sr High, MSBSD, Alaska

Outcome: 11 teachers completed the course in Spring 2020. Excited to roll out a revamped course statewide in 2021!

Course Website: csplayground.org



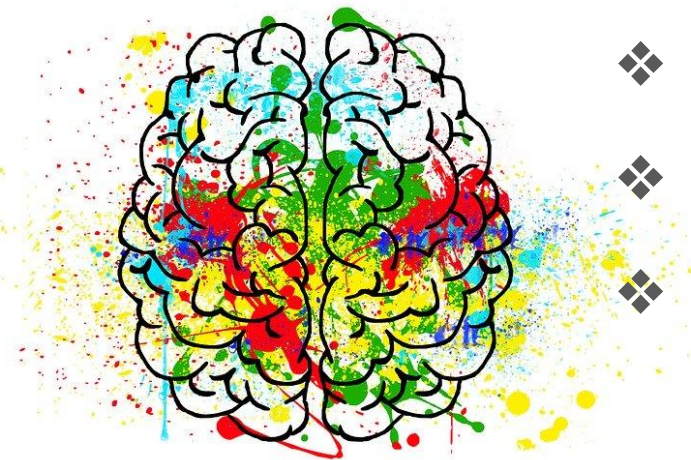
How do you model learning
for your students?



Students choose an option

Throughlines!

Value of growth mindset



- ❖ Perspective: Educator as student
- ❖ Transition: CS educator as lead learner
- ❖ Vulnerability: Failing forward as an adult



Throughlines!

Need for equity-centered conversation in the CS classroom

- ❖ Computer science is in everything
- ❖ Cultural responsiveness vs. cultural relevance
- ❖ Discomfort (students & instructor) during tough conversations



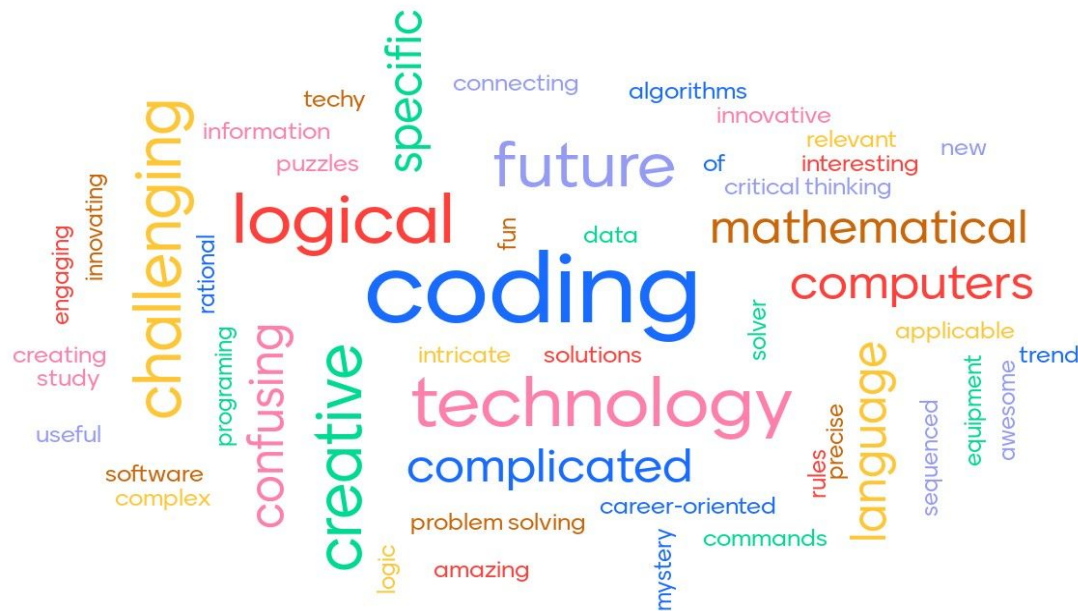
Throughlines!

Shifting conceptions about CS education

- ❖ CS is more than coding
- ❖ Valid reasons to say “No” to CS
- ❖ Creativity and play for older students and adults



Shifting conceptions about CS education



**What ONE word
comes to mind
when you think of
computer
science?**



Students, write your response!

Let's keep the conversation going!



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