Virtual Teaching For Students of Color: How to Make Sure Culturally Relevant Practices Make Their Way Home

Bryan A. Brown, Ph.D.

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A Dilemma of Technology & Teaching

- A Dilemma
- Big Idea
- What is CRP
- Theory v Pedagogy
- Sample of CRP
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- D.D. Theory
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- Tools 4 Teachers
- Join The Movement

Googling “Quarantine home school”

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- Multiple children, requires multiple computers & laptops
- Wireless access & speed cost money

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- Attending digital a course in a crisis can be challenging
- Fighting digital distractions
- Teachers in need of expertise and support

The Big Idea: Digital Diversity

A Dilemma

Big Idea

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Virtual Instruction should:

a. Use images and sounds that reflect diversity

b. Teach content **THROUGH** diverse topics

c. Should empower kids to act on their knowledge

d. Embrace digital limitations (paper models, drawing, photos, social media)

e. Use Culturally relevant pedagogy

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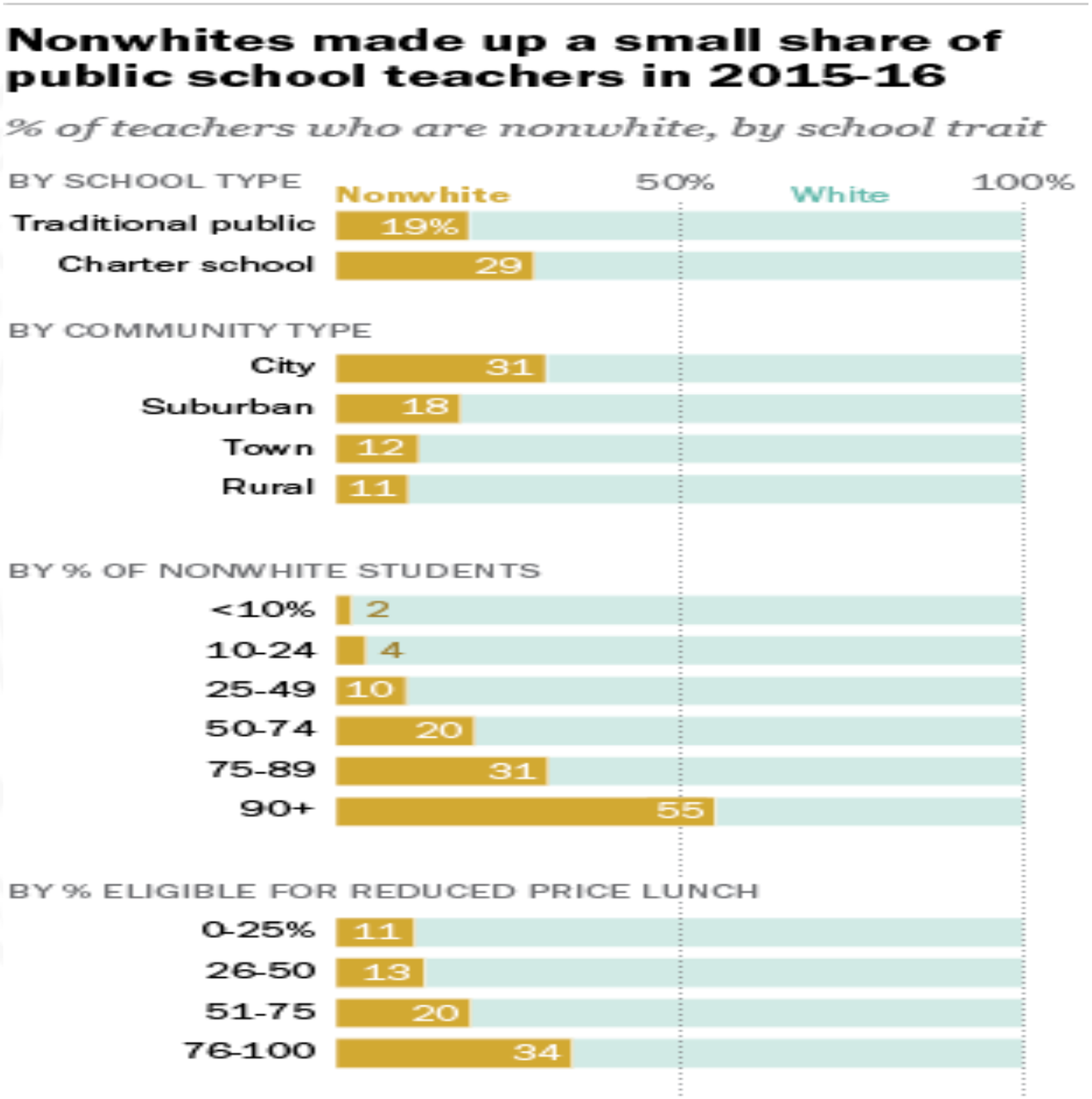

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4 Digital basics:

1. **Change The Topic**

2. **Change The Formative Assessment**
   - videos and posts

3. **Use digital engagement…**
   -talk less & let students type more

4. **Change The Audience**

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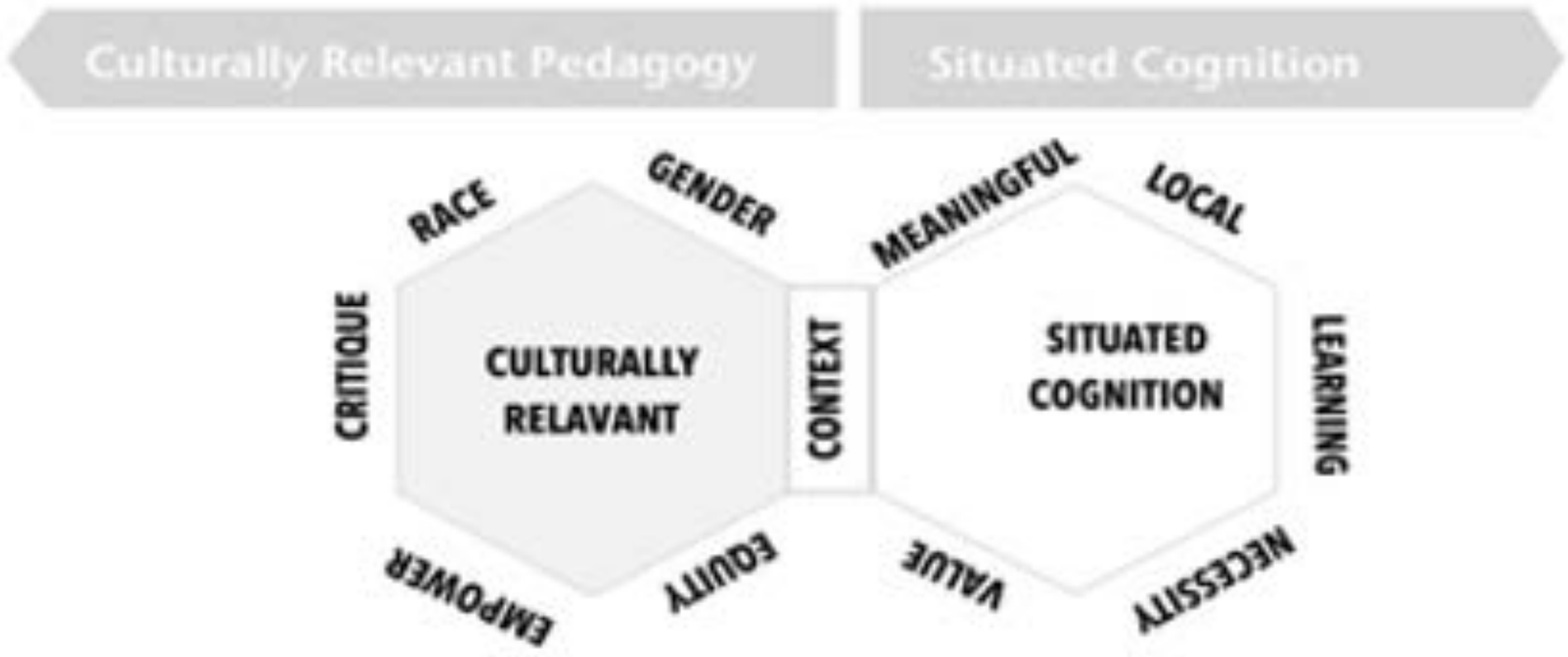

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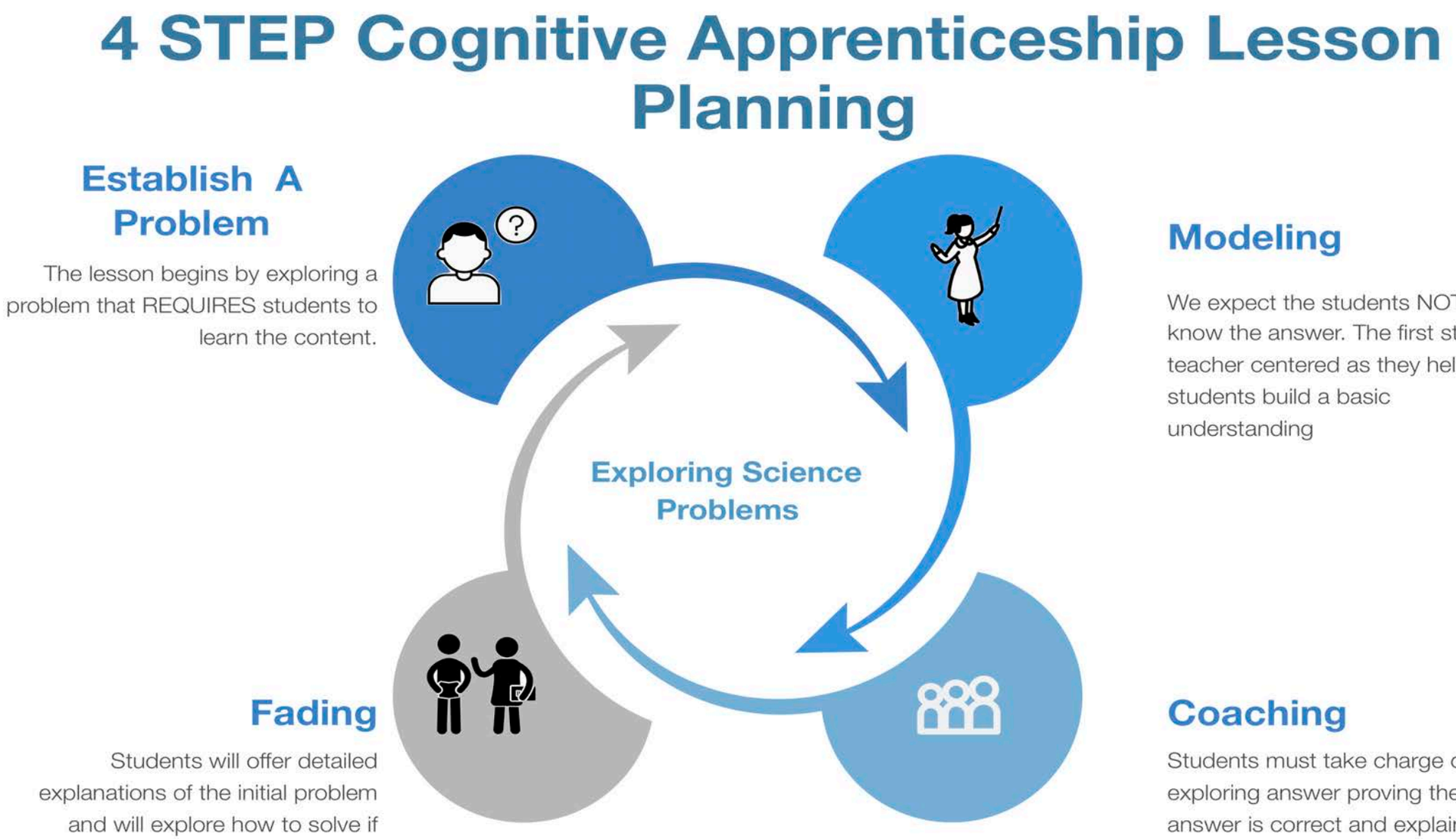

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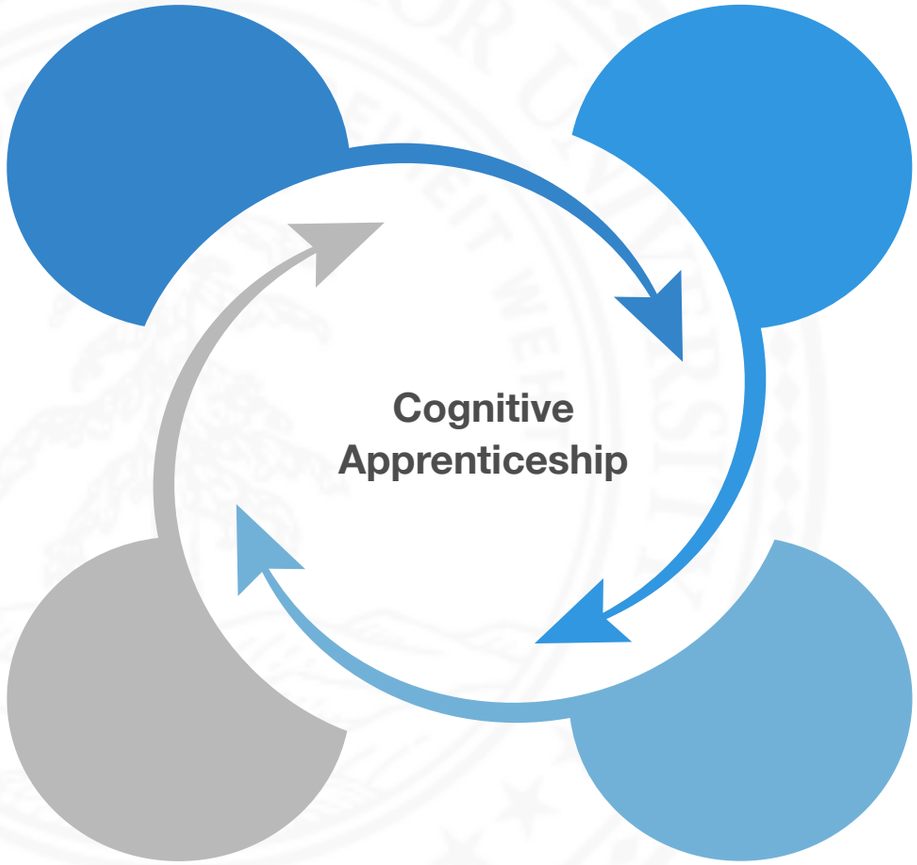
The Problem

Why would it be bad to put a fresh water fish in a salt water tank?



Modeling

Activities
- Video explaining Concept
- Teacher Lecture
- Short Read

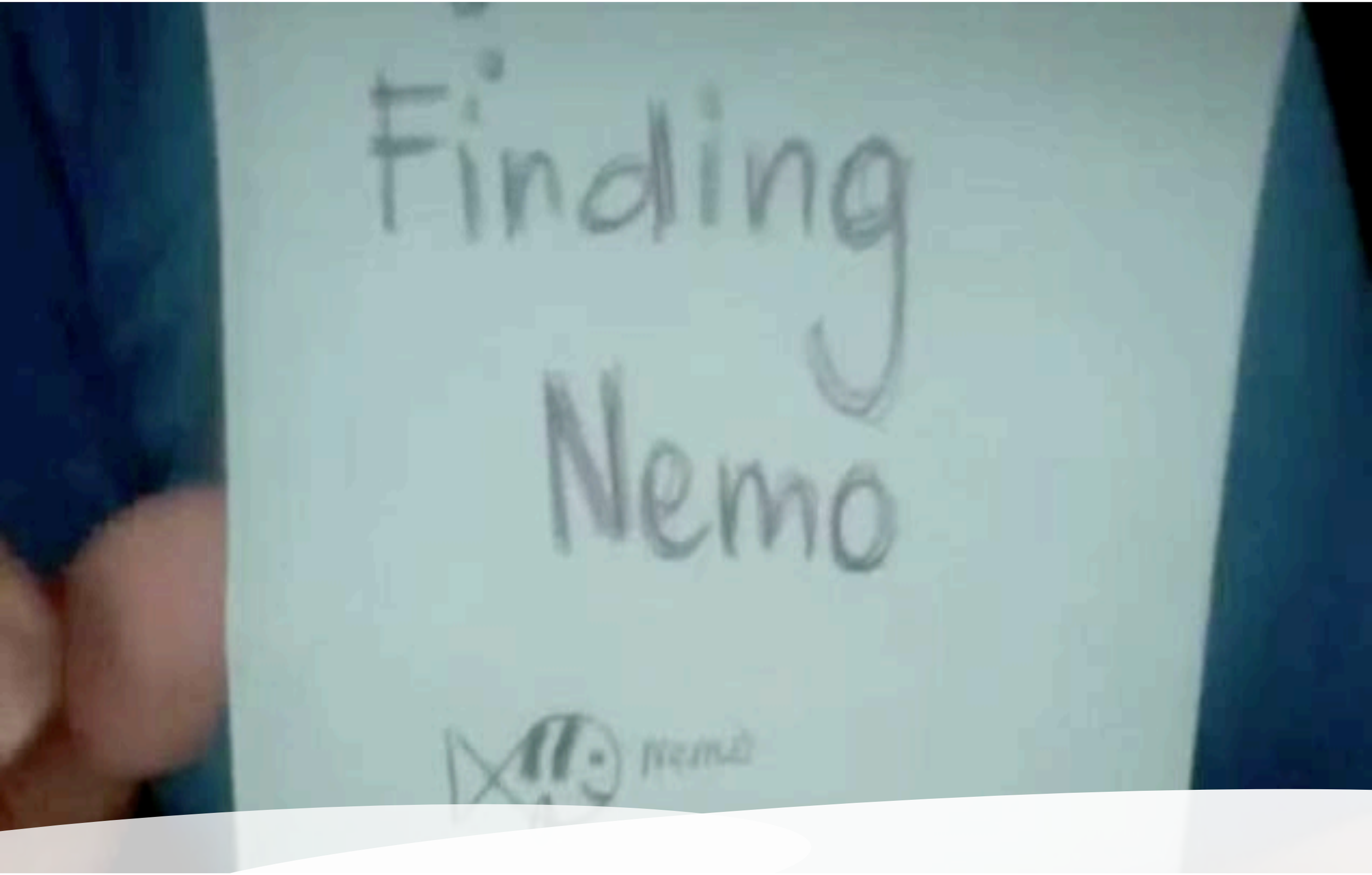
Fading

Activities
- Students write essays explaining key ideas
- Students prepare and present their own videos

Coaching

Activities
- Inquiry Experiment
- Students presents models explain the answer
- Students prepare a powToon animation

Building Pedagogical Content Knowledge



The 20 Second Story

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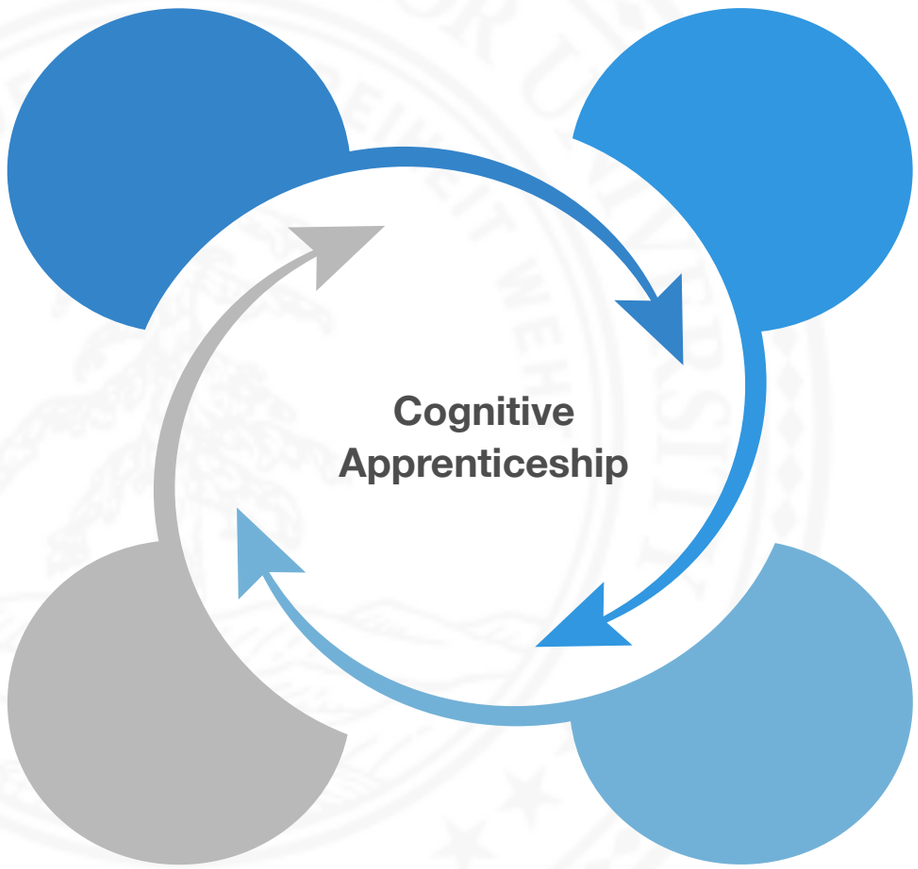
The Problem

Why do we marinate Carne Asada? Why do we marinate Chicken?



Modeling

Activities
- Video explaining Concept
- Teacher Lecture
- Short Read

Fading

Activities
- Students receipe guide for our family
- Students prepare and present their own videos explaining how it works

Coaching

Activities
- Inquiry Experiment
- Students presents models explain the answer
- Students prepare a powToon animation

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The Problem

Does marinating meat work?

The Concept

Osmosis & Difussion

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CRP Theory vs. Practice

A Dilemma

Big Idea

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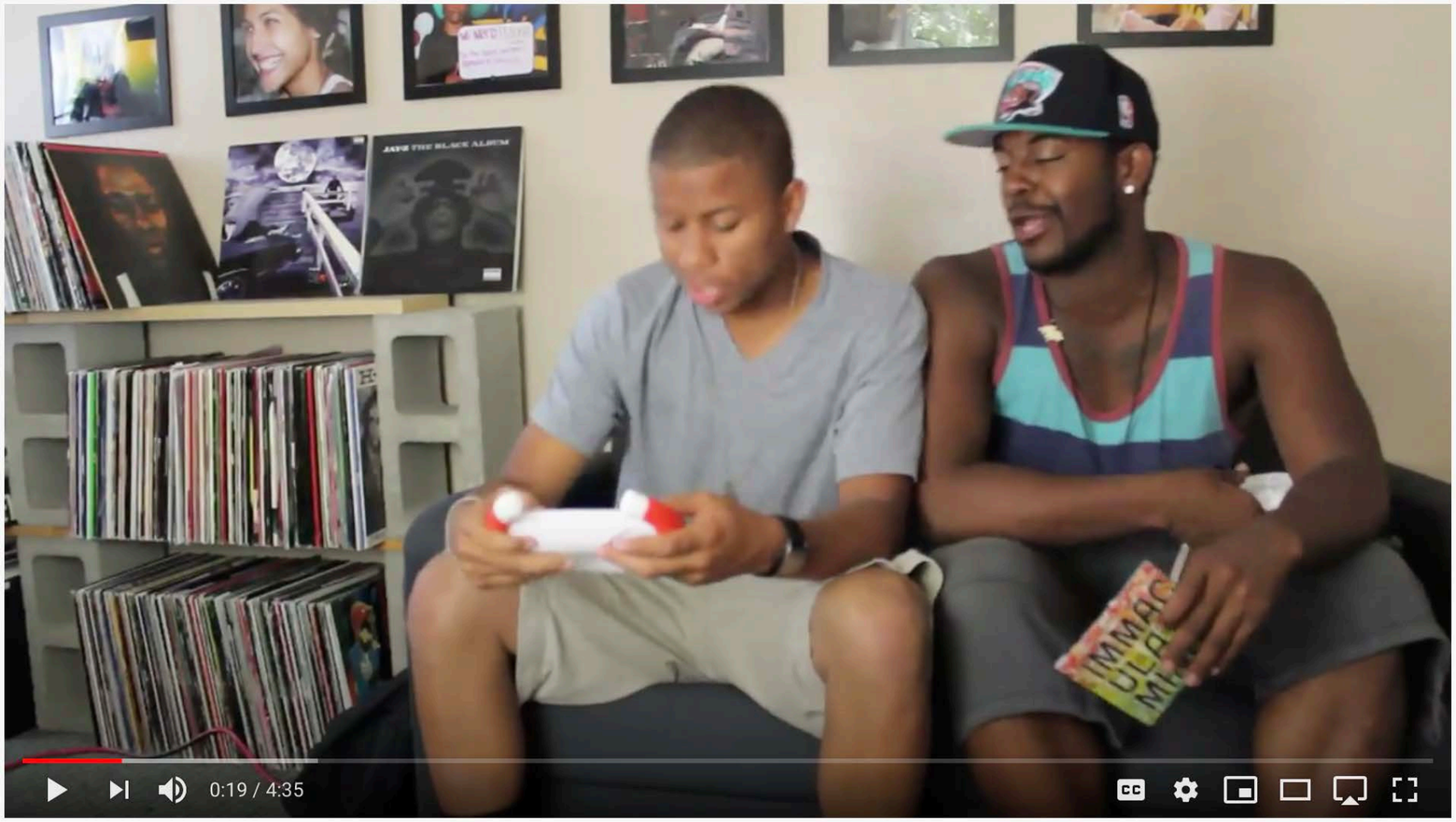
Join The Movement

While it may take years to recruit and train black science teachers our technology can be black today?



A Sample of CRP Teaching

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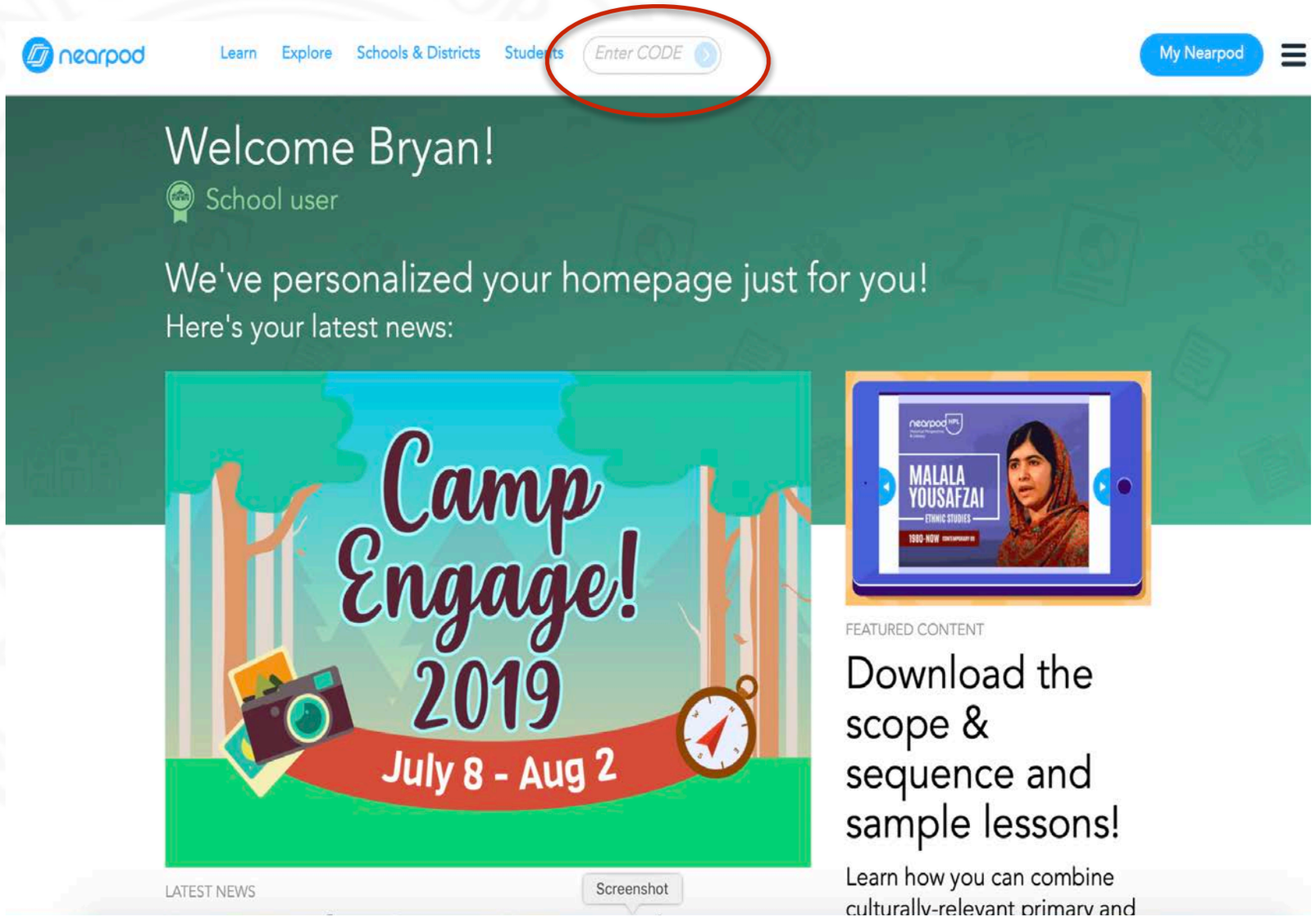

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Digital Diversity

A Dilemma

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Digital Diversity

D.D. Theory

D.D. Pedagogy

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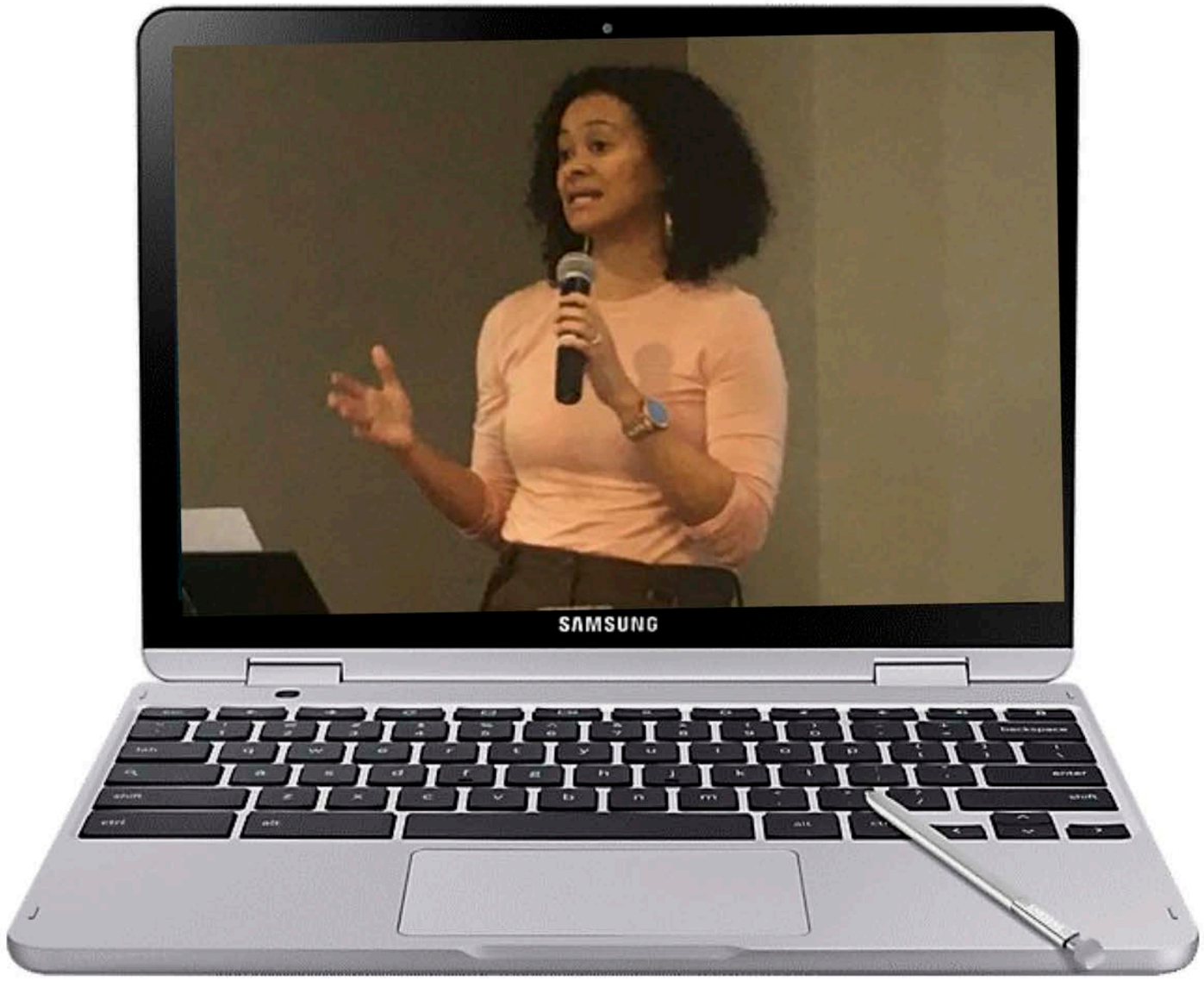

Digital Diversity- Theory

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Stereotype Threat (Steele, 1991)

Reverse Stereotype Threat (Ambady, 2001)

Unconscious Bias (Eberheardt, 2019)

Digital Diversity- Theory

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All 3 rely on psychological cueing

Stereotype Threat (Steele, 1991)

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Digital Diversity- Pedagogy

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Virtual Instruction should:

a. Use images and sounds that reflect diversity

b. Should explore diverse topics

c. Should empower kids to

d. Embrace digital limitations

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A Sample of Digital Diversity Teaching

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How would you teach the urinary system in a CRP Way?

How do you make sure your distance learning lesson is digitally diverse?

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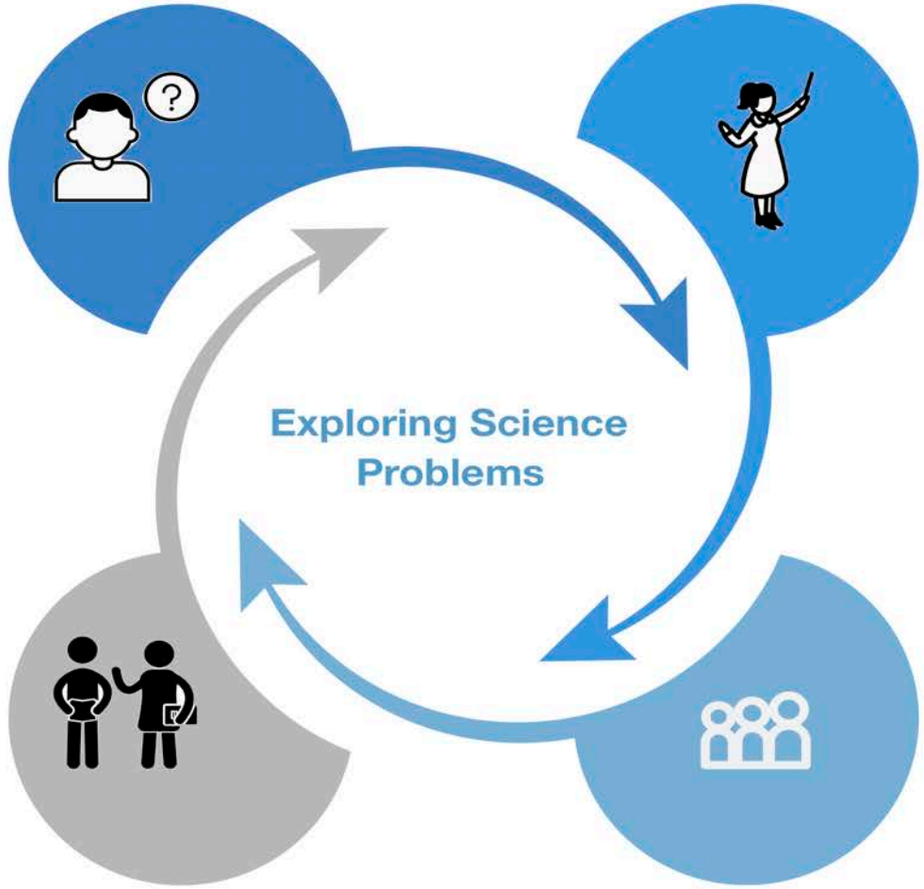
4 STEP Cognitive Apprenticeship Lesson Planning

Establish A Problem

The lesson begins by exploring a problem that REQUIRES students to learn the content.



Modeling

We expect the students NOT to know the answer. The first stage is teacher centered as they help the students build a basic understanding

Fading

Students will offer detailed explanations of the initial problem and will explore how to solve if through science.

Coaching

Students must take charge of exploring answer proving the right answer is correct and explaining to each other.

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Establish a problem

When we are at school we drink water from the water facet. Now that we are at home are people drinking less water? If so how does it effect your urine (orange, dark yellow, light yellow)?

Model

- Video teaching about the Urinary System
- Read Textbook

Coach

- Students build a paper model and record explanation videos
- Read Textbook chp

Fade

- Students record public service announcement about drinking water
- Go Viral! Students write social media post about each aspect of the urinary system and the need for clean water

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Establish a problem - CRP

When we are at school we drink water from the water facet. Now that we are at home are people drinking less water? If so how does it effect your urine (orange, dark yellow, light yellow)?

How does health water intake impact health for POC?

Model- CRP

Video teaching about the Urinary System **(USE digitally Diverse Video)**

Read Textbook

Read article about water intake and prostate cancer for POC

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Coach - CRP

Students build a paper model and record explanation videos the explains two things:

(1) How does the Urinary System Work,

(2) How does water intake impact Colon Cancer for People of Color?

Read Textbook chp

Fade - CRP

- Students record public service announcement about drinking water and **the health benefits for people of color**
- **Go Viral! Students write social media post about each aspect of the urinary system and the need for clean water for POC - Flint**

The Technology-Based Bridge

A Dilemma

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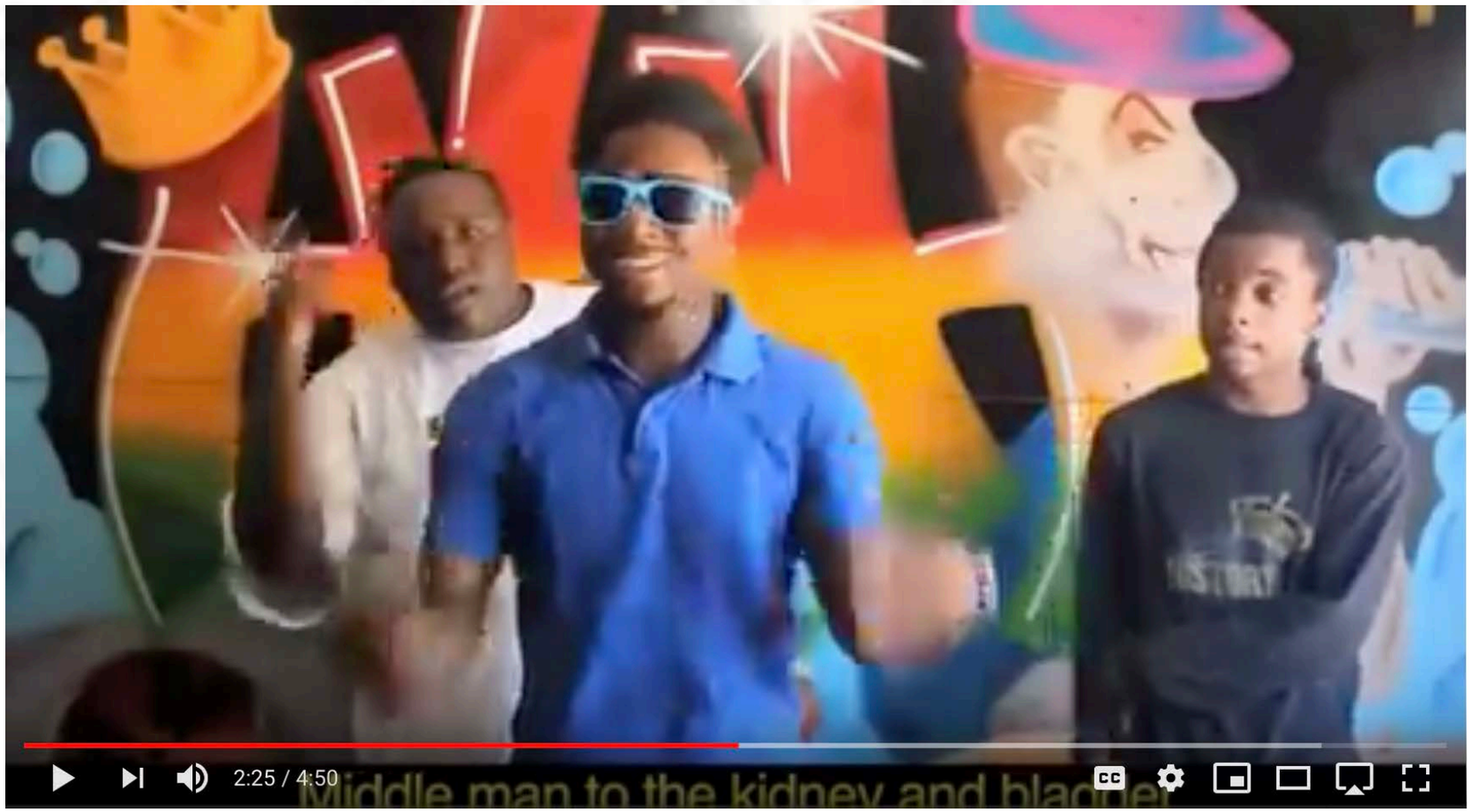

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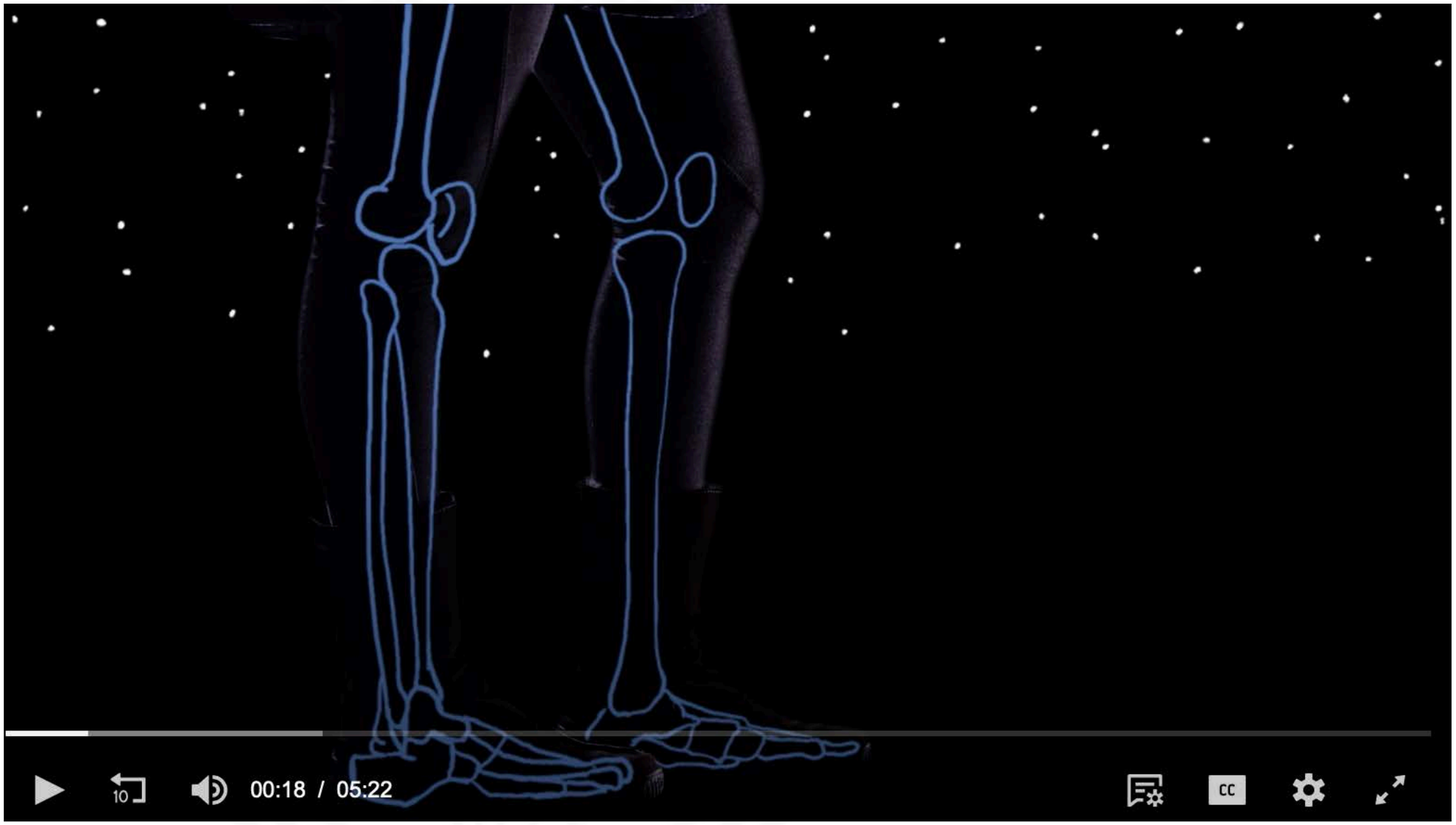

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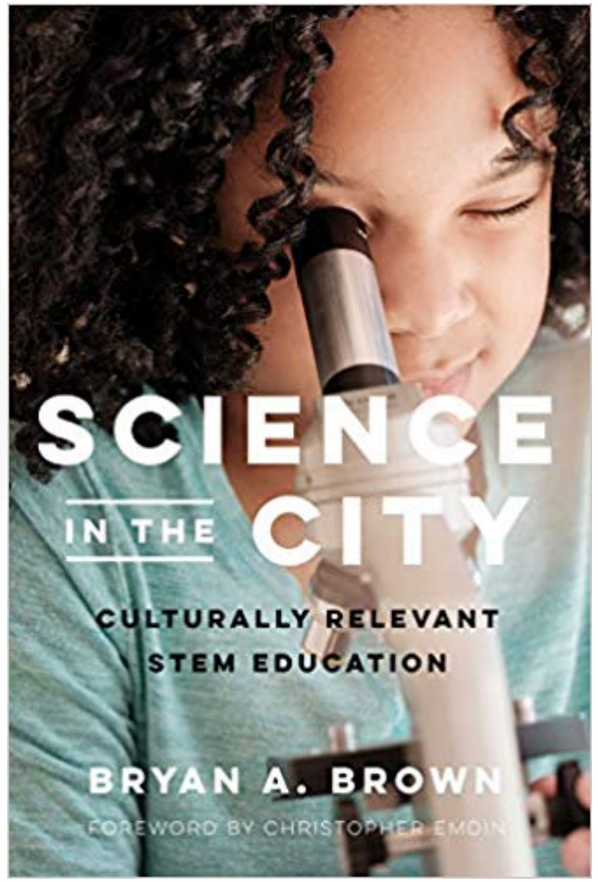

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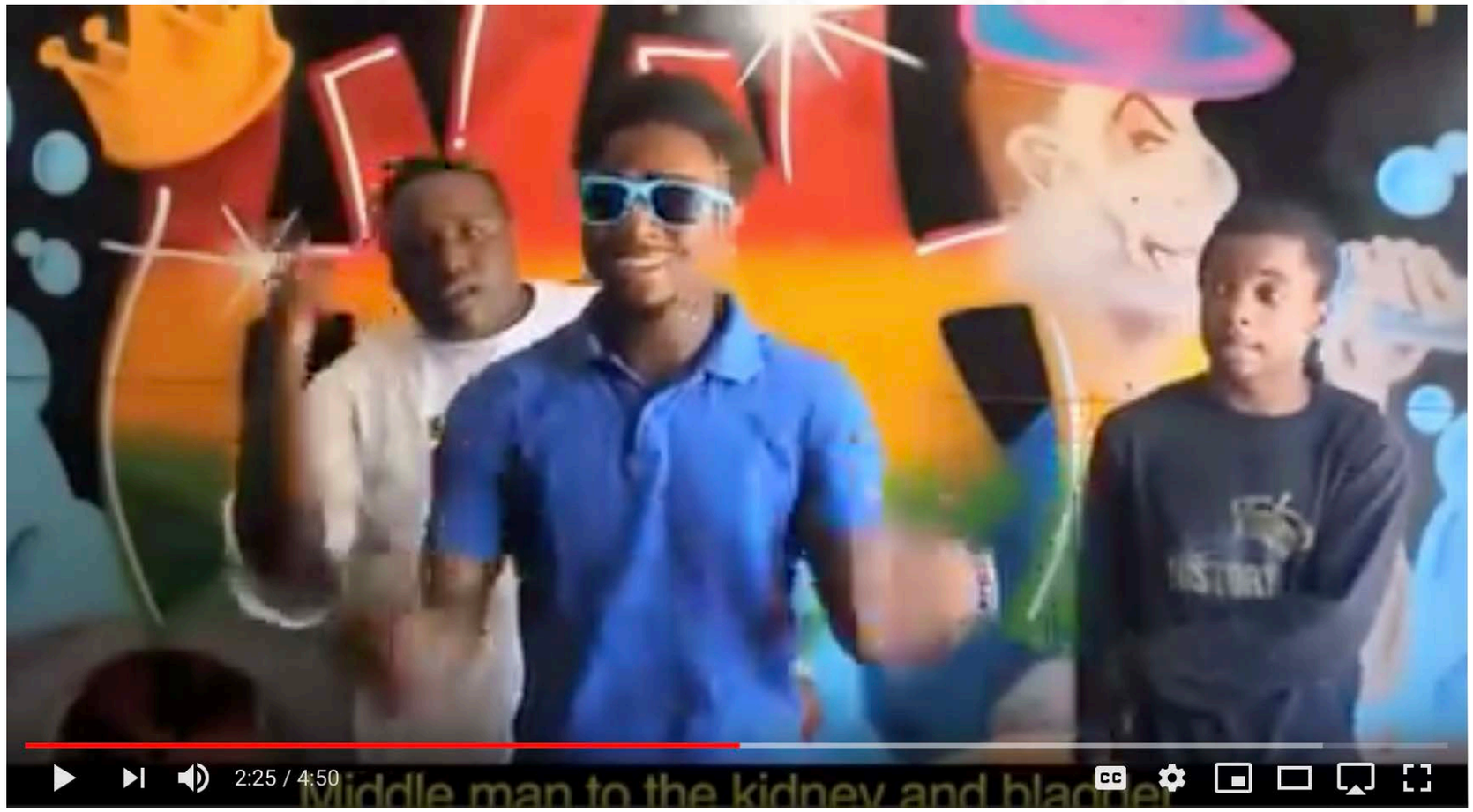

A Demonstration

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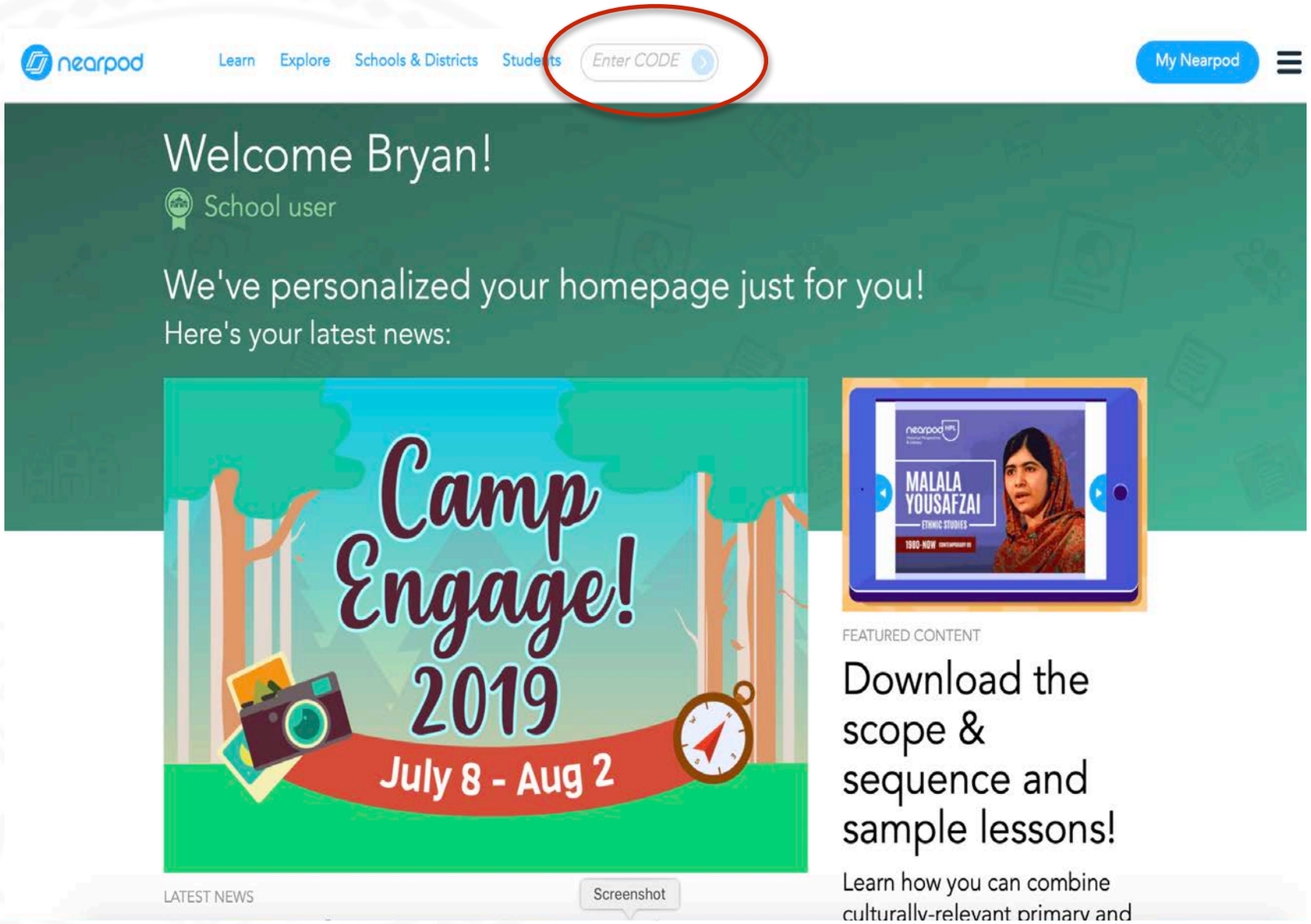
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