

05_CS Pioneers Lesson Plan

Duration: 90 MIN (2-45 Min periods)

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Unit: LET'S POWER ON EQUITY FOR CS UNIT

Objective: Students will learn about the barriers to computer science education. Students will explore how CS Pioneers have made an impact on overcoming these challenges. Students will investigate key figures in CS that they feel represented by.

Standards:

Carrer Paths	4-6.IC.7 Identify a diverse range of role models in computer science. 2-3.IC.7 Identify a diverse range of roles and skills in computer science.
ELA Reading Anchor Standards	Standard 1: Read closely to determine what the text says explicitly/implicitly and make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text. Standard 5: Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.
ELA Writing Anchor Standards	Standard 5: Draw evidence from literary or informational texts to support analysis, reflection, and research.

Read Chapter 5

Re-read chapter 5 and stop for discussion:

Purpose for reading: As we re-read think about: the obstacles to accessing CS ed discussed

The CS pioneers we are introduced to

1. On page 72, the friends are discussing how their teachers address or ignore race/ethnicity in the classroom. Why is it important to address race/ethnicity in

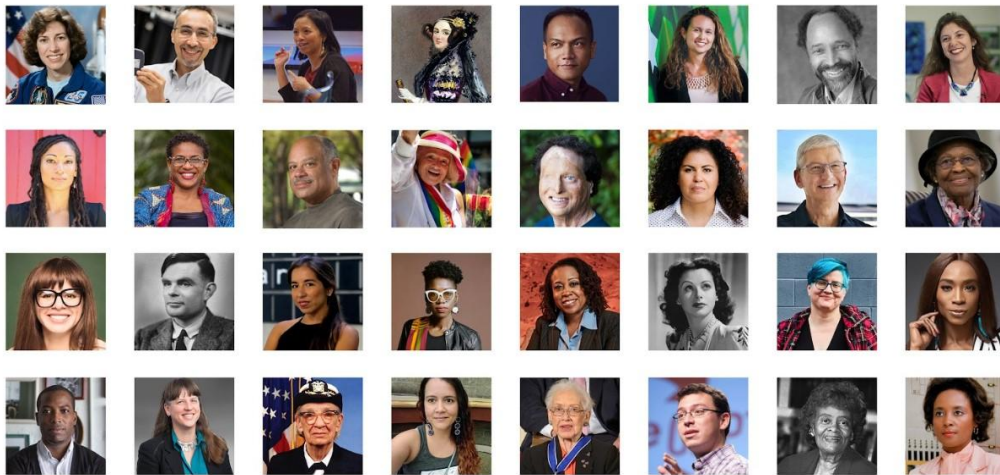
school settings? What do you wish teachers would discuss in relation to race/ethnicity?

2. On page 73, the group talks about barriers to computer science education. Can you think of other ways computer science may not be accessible?
3. On page 76, the friends are discussing how a lack of access led to a disparity for Black swimmers. Then friends joke about Christine pursuing diving because she is half Korean, and also discuss the stereotypes that shaped Taylor's family's experience with swimming. How do you think this is relevant to computer science education and careers in technology?

Think-Pair-Share: In this chapter, we learned about many different figures in computer science. Which person did you most relate to or stood out to you? Why? What obstacles did they face?

2022-2023

CS PIONEERS CALENDAR



Pioneer Calendar: Students work in pairs to explore one month of the calendar. Share out about the pioneers for that month.

Wrap-Up: Groups of 4 work together to solve the scavenger hunt:

https://www.flippity.net/vb.php?k=1oDWXJfdsYsvaFFPjZECnXwkRwPRXZYRNfD6luB_c9c

CS Pioneers Scavenger Hunt

Using the [CS Pioneers Calendar](#),
try to complete this [Scavenger Hunt](#)!



Exit Ticket: Students will present the screenshot of having solved the scavenger hunt.

Assessments:

Classroom Observations

[Plickers questions](#)

Teacher Lesson Notes

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Extension Activities (Assignments)

Share about your CS Pioneer with an adult or sibling at home!

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