

TITLE

HOW MUCH IS 1/32?: USING MATH SKILLS TO TALK ABOUT PRESERVING THE HISTORY AND CULTURE OF HAWAI'I

GRADE LEVEL: ANYONE WHO USES MATH AND LOVES STORYTELLING!

DISCIPLINE: Any

TOPIC: History of Hawai'ian land

STANDARDS: Common Core English and Math

OBJECTIVES:

- Explain what 1/32 means in human terms when it comes to determining one's background.
- Apply facts from Hawai'i's history that bring the point home as to why a fraction like 1/32 is important.
- Construct a meaningful definition of the word "culture"

ESSENTIAL QUESTIONS:

- How does math help us to understand complex questions relating to social studies, civics, and sociology?
- Can terms like identity and culture be quantified in any meaningful way?

MATERIALS NEEDED:

- Internet access & devices if available
- Paper
- Writing utensils
- Calculator (optional)

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RELEASE DATE: DATE
LAST UPDATE: DATE



CONTEXT FOR THE LESSON:

This lesson uses language and historical events from Hawai'i to teach math skills. The math becomes important when legislation is passed that reserves land for Native Hawai'ians.

However, over time the percentage of Native Hawai'ian blood that determines qualifying under various programs has changed or is subject to debate. By using actual legislative history and historical events, students can learn math while also learning about history, civics, and sociology.

Explore and ask students to research and discuss what these terms are and how language as a fluid part of society can change in meaning and connotation. Provide examples of the terms using stories, images, events, and other forms of communication and expression. Definitions below are meant to provide some context in broad strokes.

VOCABULARY:

- Hapa a term used to describe people of mixed Asian race. Some people call
 themselves hapa while others find the term derogatory. As a general rule, ask
 people how they would like to be introduced and identified people don't
 always want others using terms they feel comfortable using for themselves.
 (For example, I might say my mom is being annoying, but no one else is allowed to).
- Biracial/multiracial people whose backgrounds are made up of two or more racial groups
- **Multiethnic** a combination of multiple cultural groups and expressions. People, places, art, music can all be described as multiethnic.
- Multicultural -a combination of the customs, arts, social institutions, and achievements of a particular nation, people, or social group. People, places, art, music can all be described as multiethnic.

Guide students to research and learn about the following:

 How and why the Hawaiian homestead came to be: see resource above <u>What the Hawaiian homestead is</u> <u>Department of Hawaiian Home Lands | Prince Jonah Kūhiō Kalaniana'ole</u>

READ & EXAMINE:

- Current laws for owning/passing down Hawaiian homestead: https://kawaiola.news/hookahuawaiwai/from-a-five-year-pilot-to-a-century-of-homesteading/
- What the Bayonet Constitution is and its residual effects:
 The Bayonet Constitution
 Jul 6, 1887 CE: Bayonet Constitution | National Geographic Society



RECONVENE:

Students should reconvene as a class to review the following:

• Under current federal law, about 200,000 acres across Hawai'i are reserved for Native Hawaiian people who are at least 50% Hawaiian.

From a Five-Year Pilot to a Century of Homesteading - Ka Wai Ola

- Hawaiian records departments contain birth certificates and other vital documents that can help applicants prove they are at least 50% Native Hawaiian.
- A Native Hawai'ian congressman introduced legislation to change requirements for passing down Hawai'ian homestead leases to relatives from 50% Hawaiian to 1/32 Hawaiian.
 Congressman Eyes Blood Quantum Rules for Hawaiian Homelands | Hawaii News
- Groups have lobbied to limit the program to full-blooded Hawaiians, while others insisted on a blood quantum of 1/32 due to Hawaiii having been colonized and seized by armed forces - thus influencing the makeup of present and future generations.

Blood Quantum Policy an 'Act of Compromise' for Hawaiian Homes | Hawai'i Public Radio

ACTIVITY

The Bayonet Constitution took place in 1887. We have had approximately 9 generations since that year. Determine mathematically how one might arrive at being 1/32 of any nationality in 9 generations with one starting individual being 100% Hawaiian.

CIVIL DIALOGUE:

- We cannot control our genetic make up, and in some cases, our genetics happened because of violent historical events such as the Bayonet Constitution.
 How should such an event guide our laws and approaches to living today?
- Randomly assign learners to three groups.
- -Group 1: Make a case for the 1/32 blood quantum.
- -Group 2: Make a case for the 50% blood quantum.
- -Group 3: Make a case for no quantum at all.
- The groups' task is to engage in a dialogue with one another. Emphasize that this isn't meant
 to be a debate with a "winner" but a dialogue to build toward a deeper understanding
 of peoples' rights, identities, and the effects of colonialism.
- Each group begins by creating a poster pledging a set of norms and standards reflecting their commitment and responsibility with regards to engaging in civil dialogue with the other two groups.
 Share out and hang up these posters for the discussion.
- Each group will begin with their stance, supporting statements using historical events, and counterclaims.
- The educator(s) will moderate the discussion, reinforcing the posted group and class norms.
- Allow for an organic conclusion.



RELEASE DATE: LAST UPDATE:





CLASS REFLECTION:

Have students reflect on the real-life implications of a fraction, like 1/32, and how it impacts people like Native Hawai'ians and other indigenous peoples.

- Define culture. What are the biggest influencers of your culture?
- How do we create and sustain a culture? Give examples of ways that you do both.
- When do people own a culture? Do people own a culture?
- Discuss cultural appropriation vs. cultural appreciation.
- Does cultural appreciation give you rights to a culture?
- Can we quantify culture?
- · How do we measure identity?
- What ways do we already rank and sort people?

RESOURCES:

Department of Hwai'ian Homelands

https://dhhl.hawaii.gov/kuhio/

Department of Hwai'ian Homelands

https://kawaiola.news/hookahuawaiwai/from-a-five-year-pilot-to-a-century-of-homesteading/

National Geographic, The Bayonet Constitution

https://www.nationalgeographic.org/thisday/jul6/bayonet-constitution/

U.S. News and World Reports

 $\label{lem:https://www.usnews.com/news/best-states/hawaii/articles/2021-07-15/congressman-eyes-blood-quantum-rules-for-hawaiian-homelands$

Hawai'i Public Radio

https://www.hawaiipublicradio.org/local-news/2021-07-14/blood-quantum-policy-an-act-of-compromise-for-hawaiian-homes