

Ka No'ono'o Loi: E Kūkulu Kokoke I Nā Lua Pele

'Ōwehe Laulā:

Ma kēia ha'awina, e no'ono'o loi ana nā haumāna e pili ana i nā mea i a'o ai i nā pō'ino lua pele. I nā hui e kūkulu ana nā haumāna i kekahi kūkohu kalē o kekahi lau pele a e ho'oholo ana nā haumāna i kahi maikai'i no ke kaona i ha'i 'ia e ke kumu.

Nā Pahuhopu:

E a'o ana ka haumana:

- e no'ono'o loi e pili ana i kekahi pilikia;
- e kūkulu i kekahi lua pele kuahene a i 'ole lua pele ahupapa kalē;
- e ho'oholo ma hea e kūkulu ai i kekahi kaona me ka 'ike o nā pō'ino lua pele; a me
- e wehewehe i nā pane i ka papa.

Nā Pono Ha'awina:

- Ke kalē modeling
- Nā hale kūkohu li'ili'i (e like me ka papa kēmu) (board game)
- Ka pepa pahu, oki i nā 'āpana 1x1 kapua'i
- Nā peni mākā
- Ka Pepa 'Ike Haumana: "Mauna Loa"
- Ka Pepa 'Ike Haumana: "Mount St. Helens"
- Ka Pepa Ha'awina Haumana: "Kūkulu Kokoke I Nā Lua Pele"

Ke Ka'ina Hana Ha'awina:

1. E ho'oka'awale i nā haumāna i mau hui (e aho i nā aia 2-3 mau haumāna i nā hui pākahi, akā hiki i ke kumu ke ho'oholo ma muli o ka nui o nā haumāna i ka papa).
2. E kāka'ahi i ka Pepa 'Ike Haumana: "Mauna Loa" i ka hapalua o nā hui, a e kāka'ahi i ka Pepa 'Ike Haumana: "Mount St. Helens" i ka hapalua 'ē a'e.
3. E a'o i nā haumāna e kūkulu i kekahi kūkohu lua pele a ho'ohana i ka 'ike i a'o ai no ka ho'oholo 'ana o nā lua pele ma muli o nā pō'ino lua pele.
4. E kāka'ahi i ka Pepa Ha'awina Haumana: "Kūkulu Kokoke I Nā Lua Pele."
5. E wehewehe i nā haumāna e ha'i 'ōlelo ana lākou i nā pane i ka papa ma ka hopena o kēia ha'awina.
6. Ma hope o nā ha'i 'ōlelo, e ho'ohālikelike 'oe i nā mea like a me nā mea 'oko'a no ka huli 'ana i ka ha'ina.

Mount St. Helens

He lua pele ahupapa 'o Mount St. Helens ma ke komohana hema 'o Washington. He mau makani komohana nā makani (prevailing) 'o Mt. Saint Helens—pā nā makani ma kahi komohana hema a i ka 'ao'ao hikina 'ākau. I ka makahiki 1980, ua pahū ka lua'i 'ana o kēia lua pele. Ma kēia lua'i 'ana, ua kahe kekahi kahe lehu 'ena'ena ma ka 'ao'ao 'ākau mai ka lua pele, a ua ho'opālahalaha nā kumu lā'au a me nā mea a pau i kona ala.

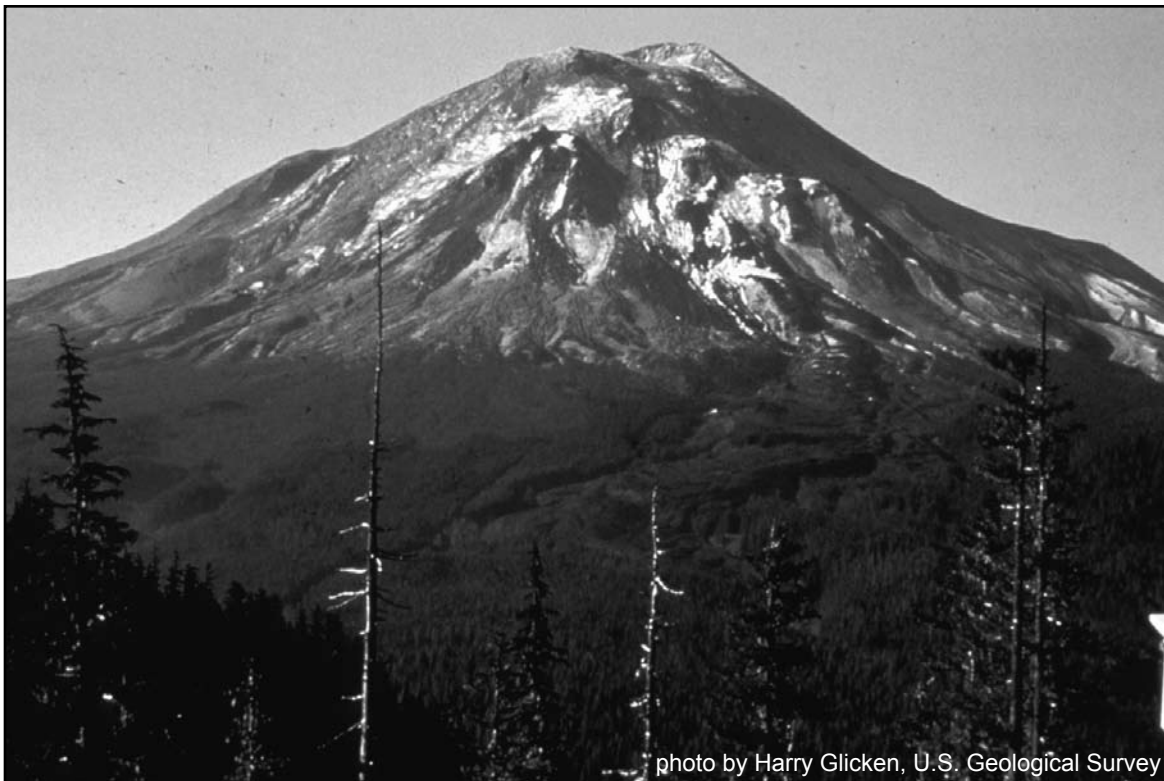


photo by Harry Glicken, U.S. Geological Survey

Mauna Loa

He lua pele kuahene 'o Mauna Loa ma ka mokupuni o Hawai'i. He mau makani Kona nā makani (prevailing) kokoke i Mauna Loa. Pā nā makani ma kahi hikina 'ākau a i ka 'ao'ao komohana hema. Ua lua'i 'o Mauna Loa i 39 mau manawa mai ka makahiki 1832. Ua lua'i hou 'o Mauna Loa i ka makahiki 1984. Ma kēia lua'i 'ana, ua kahe mua ka pele i ka 'ao'ao komohana hema a laila ua puka mai kekahi māwae hou a laila kahe ka pele i hikina 'ākau i ka 'ao'ao 'o Hilo no 21 mau lā.



photo by D. Little, U.S. Geological Survey

E Kūkulu Kokoke I Ka Lua Pele

Ka 'Ike Hou A'e:

He mea maika'i a maika'i 'ole ka noho 'ana i ka lua pele. Momona ka lepo no ke kanu 'ana i nā mea kanu, hiki ke ho'ohana i ka ikehu geothermal mai ka lua pele no ka ikehu, a nani ka waihona 'āina ka lua pele. He mau pō'ino ka noho 'ana kokoke i ka lua pele akā hiki i nā kānaka ke noho kokoke i ka lua pele me ka 'ike o nā pō'ino lua pele.

Nā Pono Ha'awina:

- Ke kalē modeling
- Nā hale kūkohu li'ili'i
- Ka pepa pahu
- Nā peni māka

Nā Kuhikuhi:

1. E nānā i ka pepa 'ike haumana i kāka'ahi 'ia e ke kumu.
2. I ka hana 'ana i nā hui, e kūkulu i nā kūkohu kalē o ka lua pele. E kūkulu i ka lua pele ma ka pepa pahu. 'O ka pepa pahu kahi puni o ka lua pele, no laila 'oi aku ka li'ili'i o ka lua pele mai ka pepa pahu.
3. E ho'ohana i ke ki'i ma ka pepa 'ike haumana no ke kōkua i ke kinona o ka lua pele.
4. E ho'oholo i ka 'ao'ao 'ākau ma ka pepa pahu. E kākau i ka 'ao'ao 'ākau, hema, hikina, a me komohana ma ka pepa pahu.
5. E kūkulu ana nā hui i kekahi kaona ma ka pepa pahu, ho'ohana nā hale kūkohu li'ili'i. E ho'oholo ma hea e kūkulu ai i ke kaona ma hope o ka no'ono'o 'ana o nā nīnau ma lalo nei:
 - 'O ka lua pele hea i kūkulu ai, kuahene a i 'ole ahupapa?
 - He aha nā pō'ino o kēia lua pele (E ho'ohana i ka 'ike mai nā ha'awina o kēia kumuhana)?
 - Aia ho'okahi a 'oi mau pō'ino, he aha ka pō'ino maka'u i ke ola o kānaka?
 - 'O ka 'ao'ao hea ka 'ao'ao e holo ana nā pō'ino?
 - He aha nā mea maika'i no ke kūkulu 'ana o ke kaona kokoke i ka lua pele?
 - He aha nā mea maika'i 'ole no ke kūkulu 'ana o ke kaona kokoke i ka lua pele?
 - Pehea ke kokoke a i 'ole ka mamao o ke kaona mai ka lua pele?
6. E kūkulu i ke kaona i kahi i koho ai.
7. E wehewehe i nā pane i ka papa. E wehewehe i ka papa i ke 'ano o ka lua pele i kūkulu ai, a e wehewehe no ke aha mai i kūkulu ai nā haumāna i ka lua pele ma ia wahi. Pono nā haumāna a pau e wehewehe a i 'ole 'ōlelo i ka papa.