

Kumuhana: Nā Manu o Haleakalā

Ka Pae	Papa ‘Ehā
Ke Kumuhana	Akeakamai
Ka Lō‘ihi o ka Ha‘awina	60 minuke
Ke Ana Ho‘ohālikelike	<u>NGSS: 4-ESS3-1 Earth and Human Activity</u>
Ke Kālai No‘ono‘o	Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.

‘Apapane



Kūmole Ki‘i: Ryan Sanderson / Macaulay Library at the Cornell Lab ([ML53273921](#))

Nā ‘Ikepili:

‘O ka ‘Apapane, he manu li‘ili‘i ‘o ia a ‘ike ‘ia kona lele ‘ana ma luna a‘e o nā ulu lehua. He ‘ula‘ula, ‘ele‘ele, a ke‘oke‘o ka waiho‘olu‘u o kona hulu. Pōkole a ‘ele‘ele kona nuku. ‘Ai ‘o ia i ka wai pua o ka lehua a ‘ai pū ‘o ia i nā ‘elala. He manu ‘oiwi ‘o ia.

Eia nō Kona kani

Kūmole ‘aukiō: David Lang / Macaulay Library at the Cornell Lab (ML 575658601)

‘Iwi



Kūmole Ki‘i: Phil Chaon / Macaulay Library at the Cornell Lab ([ML448917221](#))

Nā ‘Ikepili:

‘O ka ‘Iwi, he manu ‘oiwi nō ia. ‘A‘ohe mea e like ai me ka pōlale o ka waiho‘olu‘u o kona hulu. He ‘ula‘ula kona kino a ‘ele‘ele kona ‘ēheu. Wīwī, lō‘ihi, a alani kona nuku. ‘Ai ‘o ia i ka wai pua mai nā kumu lā‘au like ‘ole e la‘a me nā kumu lā‘au ‘oiwi a me nā kumu lā‘au ‘oiwi ‘ole ma Hosmer Grove ma Haleakalā ma kahi o Palikū. Ho‘ohana pinepine ‘ia ka hulu o ka ‘Iwi no nā hana no‘eau Hawai‘i like ‘ole e like me ka ‘ahu‘ula, mahi‘ole, a pēlā hou aku.

Eia nō kona kani.

Kūmole ‘aukiō: David Lang / Macaulay Library at the Cornell Lab (ML 575664721)

‘Amakihi



Kūmole Ki‘i: Frank Salmon/ Macaulay Library at the Cornell Lab ([ML110213381](#))

Nā ‘Ikepili:

He manu sassy ho‘i kēia me kona kanikani nuku a me kona kanikani ‘eu. Pōlale ‘ōma‘oma‘o a melemele kona hulu. Ma Haleakalā, ‘ike ‘ia ‘o ia ma Hosmer Grove, Kalahaku, a me Palikū. He uhi maka kona a no laila kapa ‘ia kēia ‘ano ona he “bandit mask”. Pi‘o kona nuku. ‘Ai ‘o ia i nā ‘elala keu ho‘i mai nā kumu lā‘au. ‘Ai pū ‘o ia i ka wai pua mai ka ‘ōhi‘a, māmane, a me nā mea kanu ‘oiwi a ‘oiwi ‘ole. ‘O ka hua mai nā mea kanu ‘oiwi a ‘oiwi ‘ole kāna ‘ai kekahi keu pū ho‘i mai nā pilo. Hele ‘o ia ‘o ia ho‘okahi, ma nā pālua, a i ‘ole ma ke ‘ano he ‘ohana.

Eia nō kona kani.

Kūmole ‘aukiō: David Lang / Macaulay Library at the Cornell Lab (ML 575677851)

‘Alauahio



Kūmole Ki‘i: Sharif Uddin/ Macaulay Library at the Cornell Lab ([ML154865661](#))

Nā ‘ikepili:

He manu kiuke loa kēia. Li‘ili‘i, pu‘ipui, a pō‘ai kona kino. Wikiwiki ‘o ia a he melemele a ‘ōma‘oma‘o kona hulu. ‘Imi ‘o ia i kāna ‘ai ma nā lālā a me ke kumu o nā kumu lā‘au. ‘A‘ole nui loa nā ‘ikepili i ‘ohi‘ohi ‘ia e pili ana i ka ‘Alauahio akā ma mua nui kona makemake e noho ma kahi o nā ulu koa a me nā ulu ‘ōhi‘a. Ma Haleakalā, noho ‘o ia ma kahi o Hosmer Grove a ma ka ‘ao‘ao ‘ē a‘e ‘o Waikamoi.

Eia nō kona kani.

Kūmole ‘aukiō: William V. Ward / Macaulay Library at the Cornell Lab (ML 10938)

Kiwikiu



Kūmole Ki'i: Bret Mossman / Macaulay Library at the Cornell Lab ([ML235647491](#))

Nā 'ikepili:

‘Ōlelo ‘ia he manu ‘oiwi kēia eia nō na‘e ‘ane halapohe lākou. Aia he 150 wale nō manu e koe nei i kēia manawa ‘ānō. He ‘ōma‘oma‘o oliva a melemele kona waiho‘olu‘u. Kapa ‘ia ‘o ia ma muli o ke ‘ano o kona nuku. Kū kona nuku i ka nuku o ka manu pāloke. Wāwahi ‘ia ka lālā o ke kumu lā‘au no ka ‘imi ‘ana i ‘elala. Makemake ‘o ia i nā wahi pulu a ma nā wahi ki‘eki‘ena o ke kuahiwi. He kaha ‘ele‘ele ma kona maka. ‘Imi ‘ia ‘o ia ma kahi o Hosmer Grove a me Palikū.

Eia nō kona kani.

Kūmole ‘aukiō: dlnc / Division of Forestry and Wildlife / [XC123887](#)

Nēnē



Kūmole Ki'i: Graham Gerdeman / Macaulay Library at the Cornell Lab ([ML211437461](#))

Na 'ikepili:

He manu 'oiwi 'o ia. Kama'āina kākou i ka 'ike 'ana iā lākou ma ka'e o ke alanui, ma Kanahā, a i 'ole ma uka. Puni 'o ia i ka 'āina me ka mau'u ma laila 'o ia e nanea ai. 'Oiai nanea 'o ia ma ka'e o ke alanui, e ha'i i nā makua e kalaiwa me ka maka'ala pū. He kaha ke'oke'o ma kona 'ā'ī, 'ele'ele kona po'o, nuku, a me kona wāwae, a laila maku'e kona kino. 'Ai 'o ia i ka wēlau o ka mau'u, nā pua, a me nā hua.

Eia nō kona kani.

Kūmole 'aukiō: dlnc / Division of Forestry and Wildlife / XC314510

Pueo



Asset ID: CAA2702F-1DD8-B71B-0BED79AFF9B8FD72

Kūmole Ki'i: Peter Christianson, Haleakalā National Park NPGallery/

Nā 'ikepili:

Lele kēia 'ano Pueo ma ka lā. Lele 'o ia ma nā Kula 'Ōma'oma'o a me ka 'āina la'alā'au. Ma laila 'o ia e 'imi i makakuke li'ili'i a me nā 'ano 'Tole like 'ole. Kula ka waiho'olu'u o kona maka a no'a kona kino ma ka maku'e a ke'oke'o. Aia ka hulu ma kona wāwae kekahi. Ma mua o ko nā po'e lawe 'ana mai i nā 'Tole like 'ole, ua 'imi a loa'a ka Pueo i nā manu.

Eia nō kona kani.

Kūmole 'aukiō: dlhr / Division of Forestry and Wildlife / XC27372

‘Ua‘u



Kūmole Ki‘i: Brian Sullivan / Macaulay Library at the Cornell Lab ([ML 60331821](#))

Nā ‘ikepili:

He manu ‘oiwi ‘o ia a he manu kai ‘o ia. Ho‘i mai ka manu mai ke kai ke hiki mai ka wā e Launa pū ai kekahi me kekahi ma kahi o Mei a me Kepakemapa. Kanikani ‘o ia ke ho‘i i ka hale ma ka pō a ua hiki nō ke lohe ‘ia kona leo. Noho ‘o ia ma nā ana ma nā pali o Hōlua ma Haleakalā a me ke ala hele o Halemau‘u. Ua hiki ke lohe ‘ia ‘o ia mai Leleiwi a me Kalakahu. Iā ia ma kai, ‘ai ‘o ia i ka mūhe‘e a me nā i‘a. Ho‘iho‘i mai ‘o ia i ka ‘ai no kāna keiki ma ke ana o ka pali. Huaka‘i ka ‘Ua‘u ma ‘Alaseka a me ‘Iapana no ‘elua pule no ka huaka‘i ‘ai.

Eia nō kona kani.

Kūmole ‘aukiō: dlnc / Division of Forestry and Wildlife / XC89638

‘Ākohekohe



Kūmole Ki‘i: Mark Rauzon / Macaulay Library at the Cornell Lab (ML 66330571)

Nā ‘ikepili:

He manu ‘ele‘ele me ka ‘alani a ‘ula‘ula ma ka lihi o kona hulu. ‘Ahinahina a ke‘oke‘o ka waiho‘olu‘u o ka lihi o kona hulu ma kona ‘ā‘ī a me kona ‘umauma. ‘Ai ka ‘Ākohekohe i nā wai pua like ‘ole akā kekahi o nā manawa, ‘ai ‘ia nā ‘enuhe a me nā nananana.

Eia nō kona kani.

Kūmole ‘aukiō: Josep del Hoyo / Macaulay Library at the Cornell Lab (ML203926431)

Po‘ouli



Kūmole ki‘i: <https://www.mauiforestbirds.org/poouli/> Maui Forest Bird Recovery Project

Nā ‘ikepili:

Ma ka makahiki 1980 wahi a ke ana‘āina, aia he 140 manu e ola nei ma ia wā. Eia na‘e, ma muli o nā pua‘a ‘āhiu, ua emi mai ka nui manu. ‘Ai ‘o ia i nā pūpū ‘āina ‘ōiwi a ma muli o ia kumu i ho‘omahelehele ‘ia ai ‘o ia he ‘ohana o nā manu ‘ōiwi o Hawai‘i nei.

Ma ka makahiki 1994, ua ‘imi ‘ia he 10 manu a ‘emi iki mai o ia heluna ma Hanawī. Ma ka makahiki 1997, aia he 3 wale nō Po‘ouli e ola nei.

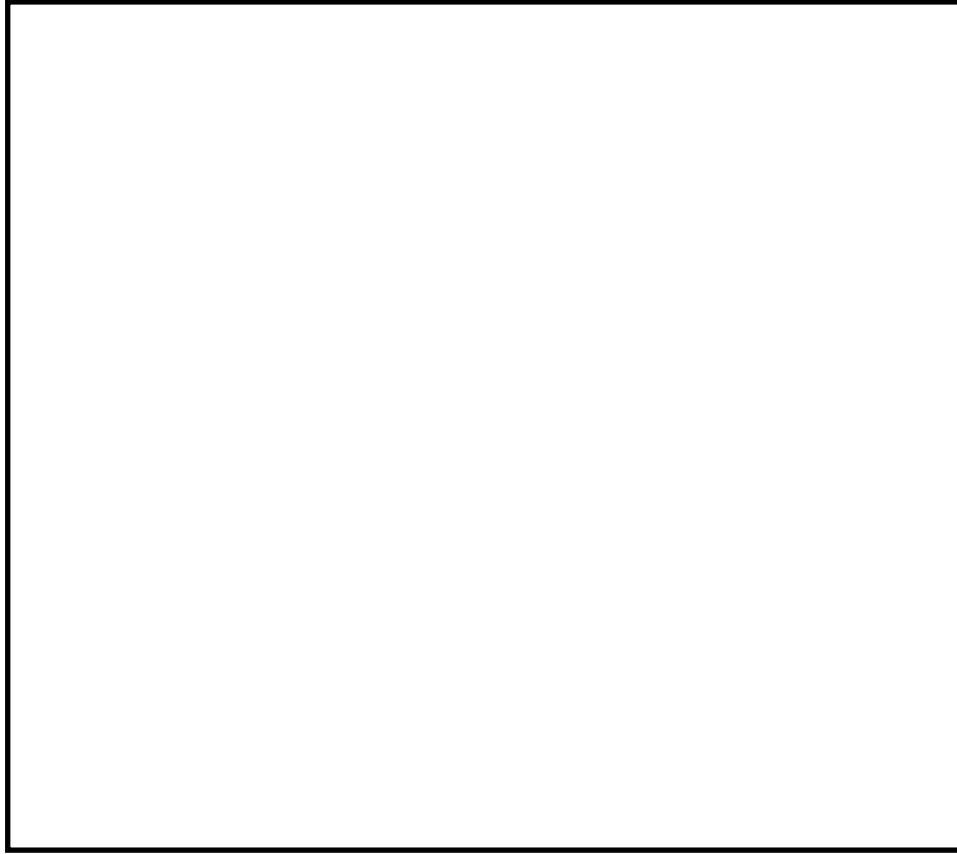
Ma ka makahiki 2004, ua hala kekahi o nā manu 3 a ma hope iki mai o kēlā, ‘a‘ole i ‘ike hou ‘ia nā manu Po‘ouli 2 e koe nei.

Eia nō kona kani.

Kūmole ‘aukiō: Tim Burr / Macaulay Library at the Cornell Lab (ML112598511)

‘Apapane

E kahaki‘i i ke ki‘i o ka ‘Apapane ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka ‘Apapane:

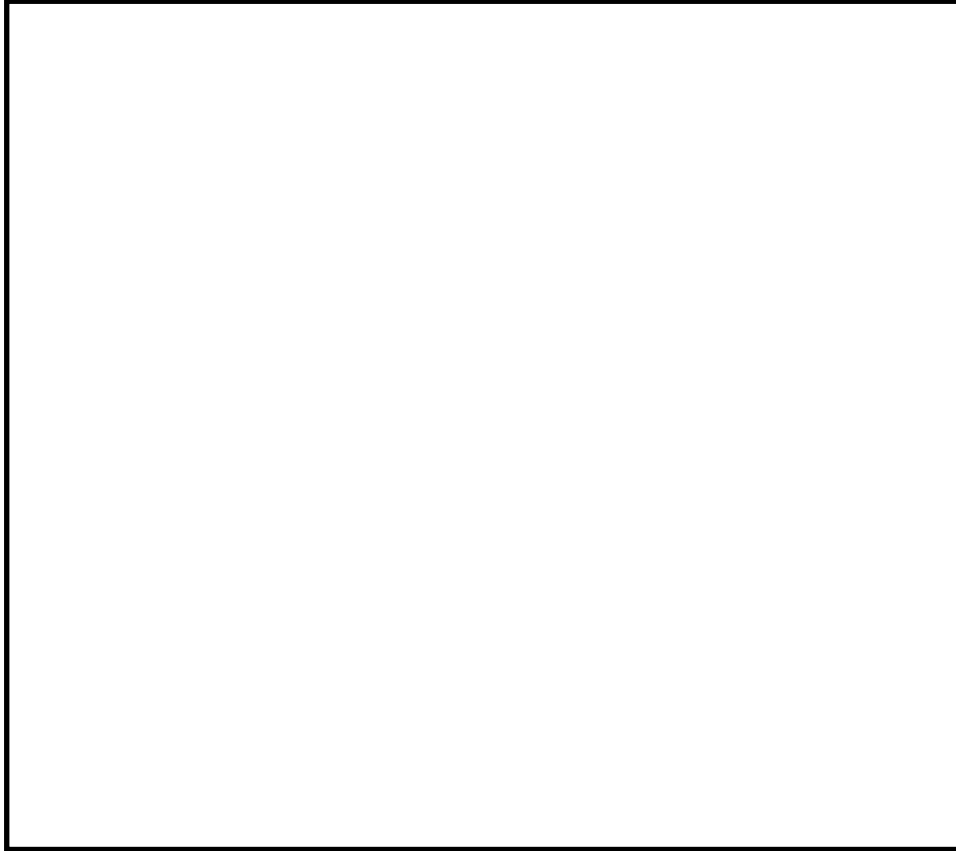
1. _____

2. _____

3. _____

‘Iwi

E kahaki‘i i ke ki‘i o ka ‘Iwi ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka ‘Iwi:

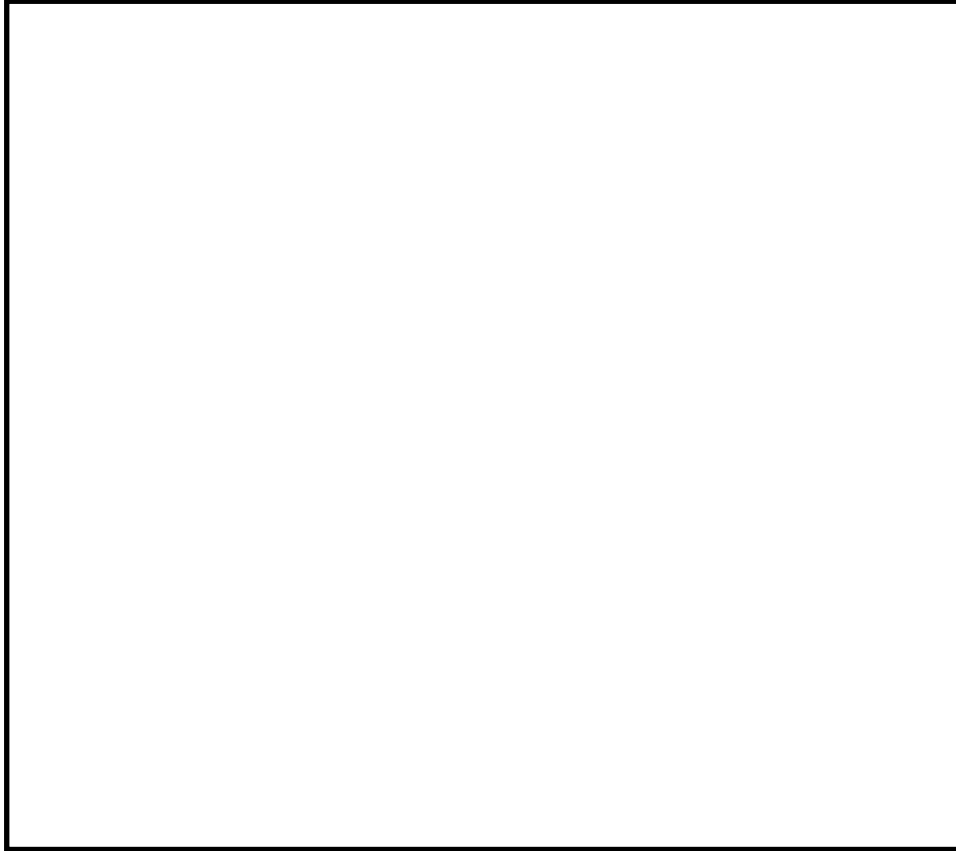
1. _____

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‘Amakihi

E kahaki‘i i ke ki‘i o ka ‘Amakihi ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka ‘Amakihi:

1. _____

2. _____

3. _____

‘Alauahio

E kahaki‘i i ke ki‘i o ka ‘Alauahio ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka ‘Alauahio:

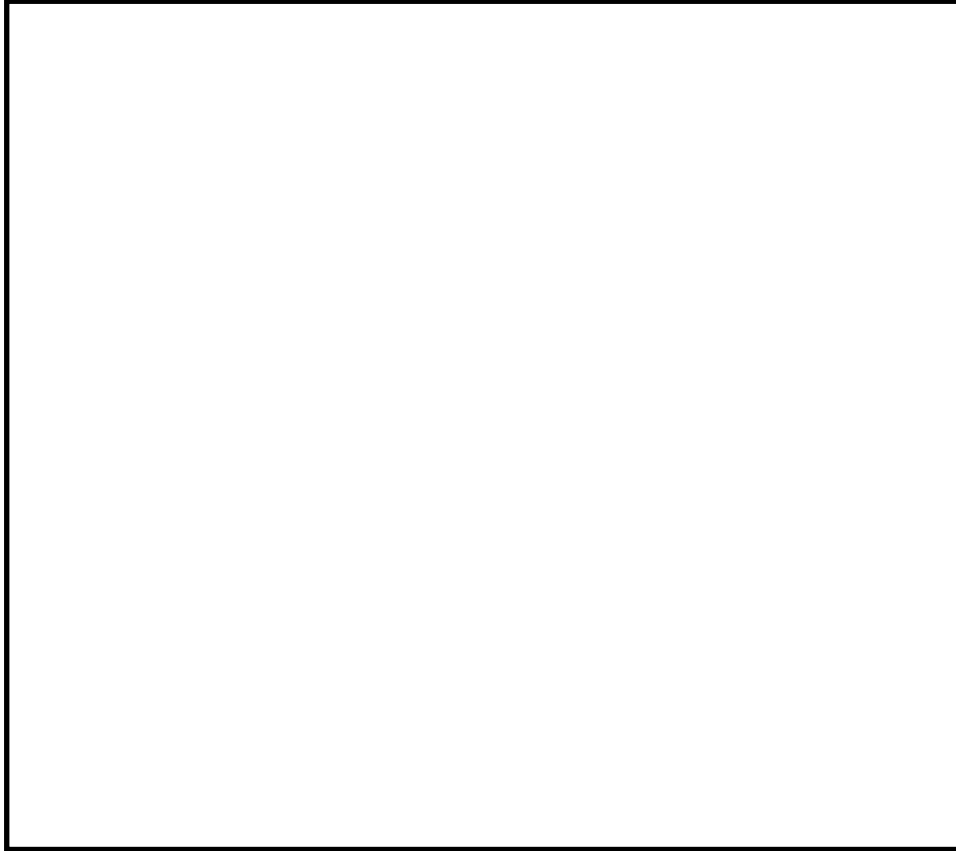
1. _____

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Kiwikiu

E kahaki‘i i ke ki‘i o ka Kiwikiu ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka Kiwikiu:

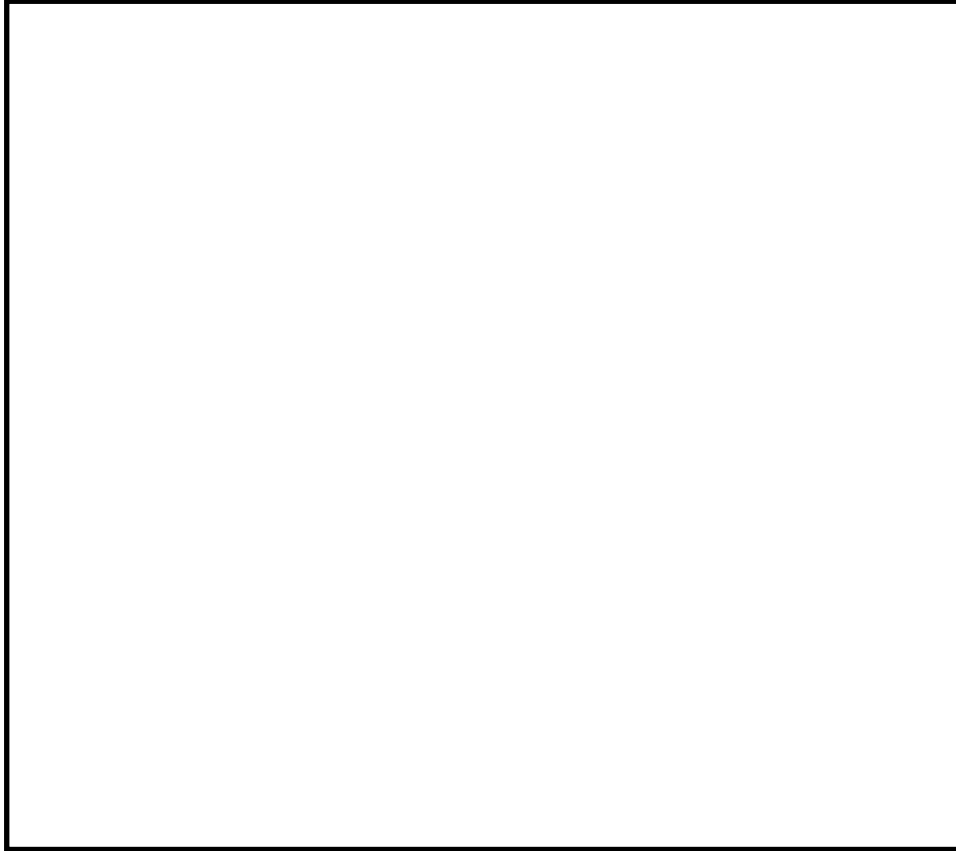
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2. _____

3. _____

Nēnē

E kahaki‘i i ke ki‘i o ka Nēnē ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka Nēnē:

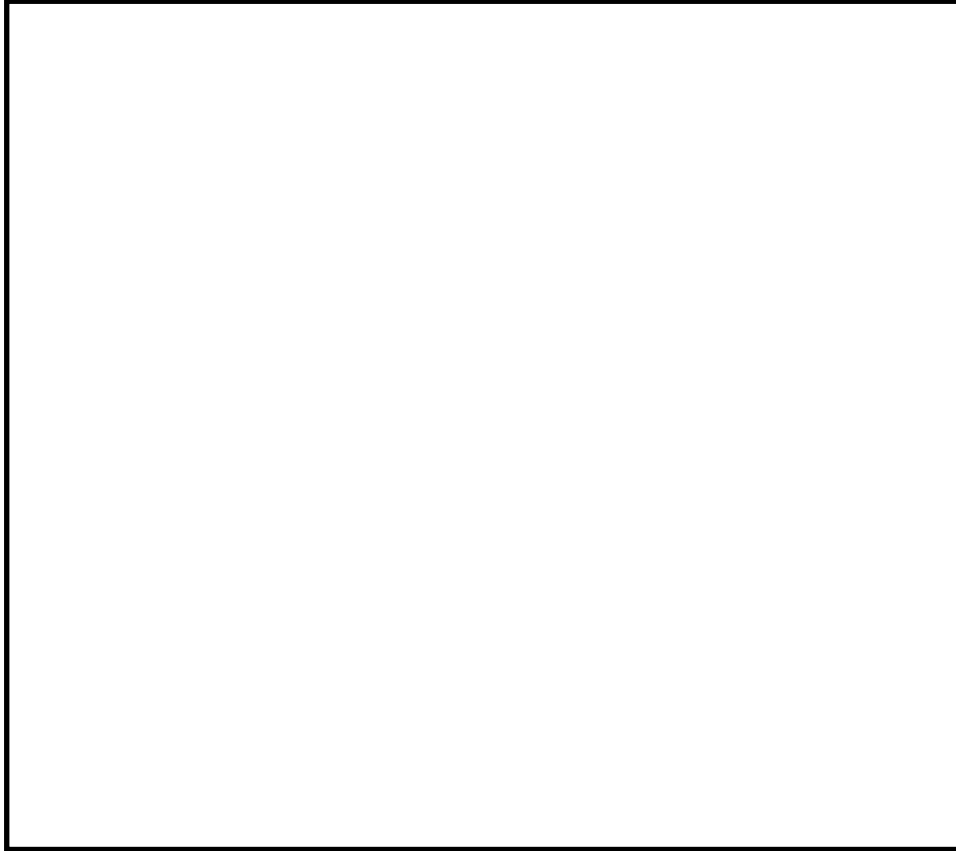
1. _____

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Pueo

E kahaki‘i i ke ki‘i o ka Pueo ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka Pueo:

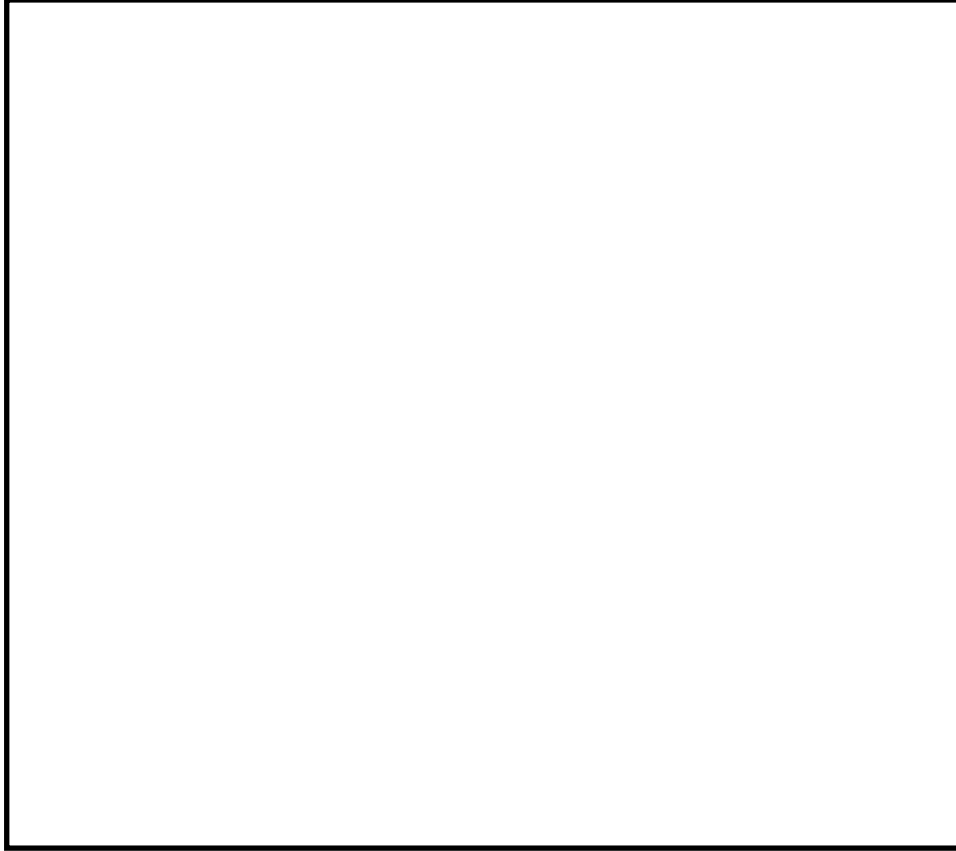
1. _____

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3. _____

‘Ua‘u

E kahaki‘i i ke ki‘i o ka ‘Ua‘u ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka ‘Ua‘u:

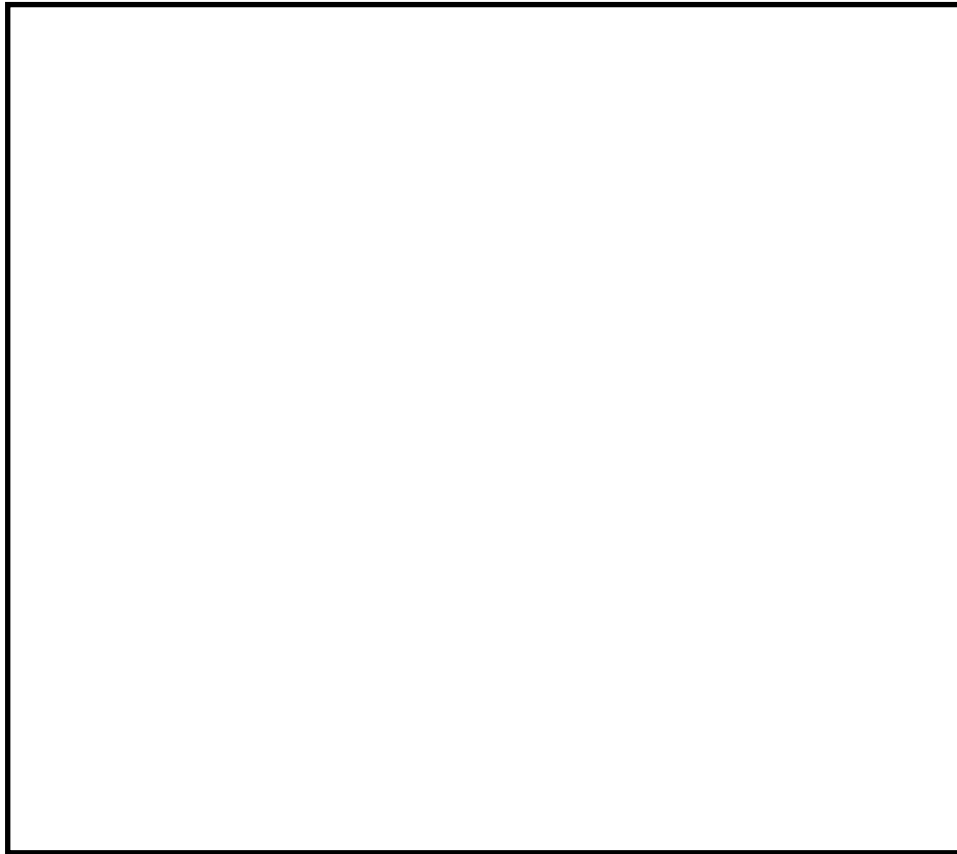
1. _____

2. _____

3. _____

‘Ākohekohe

E kahaki‘i i ke ki‘i o ka ‘Ākohekohe ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka ‘Ākohekohe:

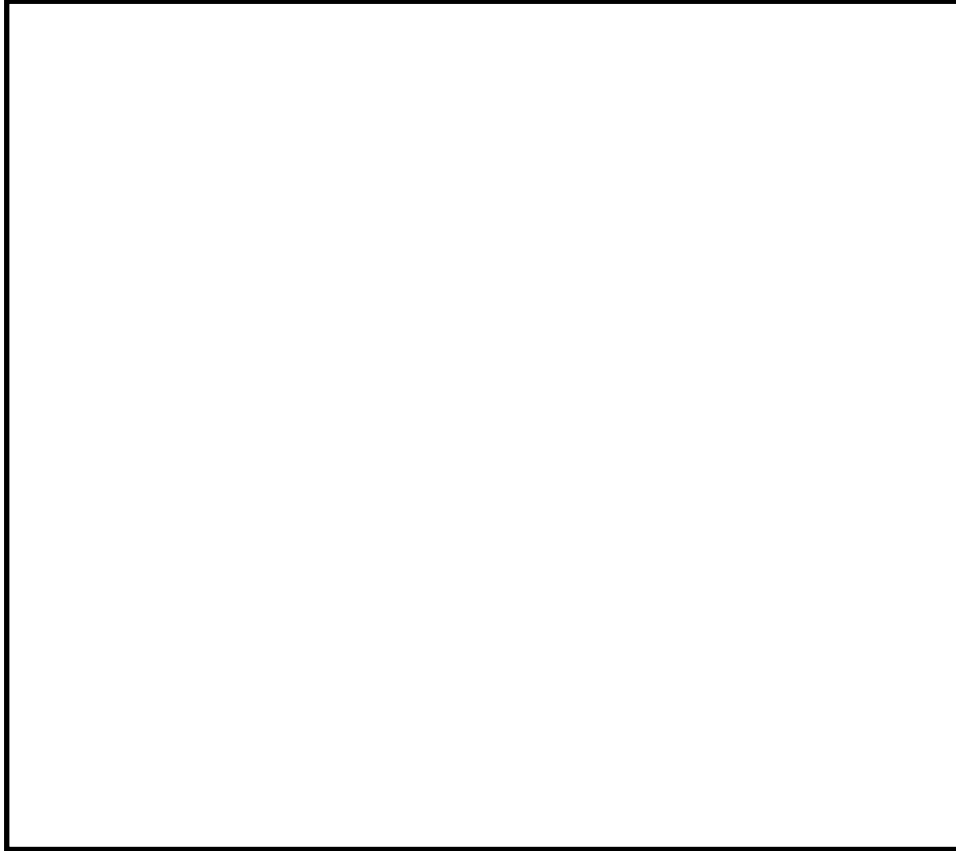
1. _____

2. _____

3. _____

Po‘ouli

E kahaki‘i i ke ki‘i o ka Po‘ouli ma lalo nei.



E helu papa i 3 mau ‘ikepili e pili ana i ka Po‘ouli:

1. _____

2. _____

3. _____