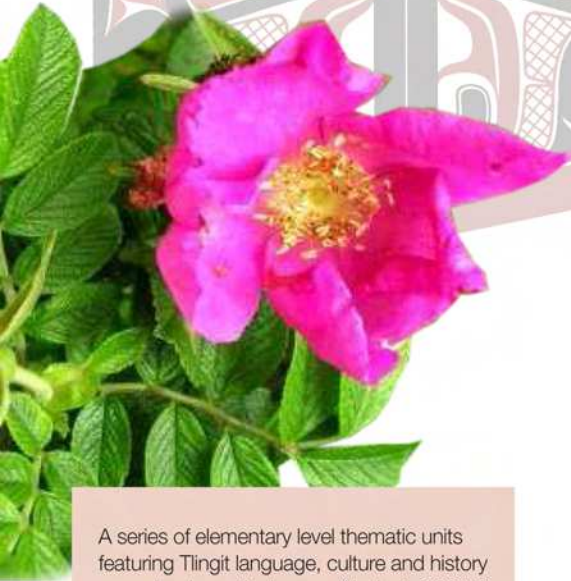


Kayaaní PLANTS



A series of elementary level thematic units featuring Tlingit language, culture and history were developed in Juneau, Alaska in 2004-6. The project was funded by two grants from the U.S. Department of Education, awarded to the Sealaska Heritage Institute (Boosting Academic Achievement: Tlingit Language Immersion Program, grant #92-0081844) and the Juneau School District (Building on Excellence, grant #S356AD30001).

Lessons and units were written by a team of teachers and specialists led by Nancy Douglas, Elementary Cultural Curriculum Coordinator, Juneau School District. The team included Juneau teachers Kitty Eddy, Shgen George, Kathy Nielson, Hans Chester and Rocky Eddy, and SHI language team members Linda Belarde, Yarrow Vaara, David Katzeek, John Marks, Mary Foletti, Rose Natkong and Jessica Chester. Curriculum consultants Julie Folta and Toni Mallott assisted and Annie Calkins edited the lessons and units.

Lessons were field tested in Juneau classrooms in 2005-6.

All units are available online at sealaskaheritage.org.

TEACHER RESOURCES



Sealaska Heritage Institute



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Kóox

**Chocolate
Lily**

K'wálx

**Fiddlehead
Fern**

***S'ikshaldéen* Hudson Bay
Tea**

Tséit

Silverweed

S'áxt'

Devil's Club

Yaana.eit

Wild Celery

T'óok'

Nettle

K'inchéiyi

Rosehips

X'áal'

**Skunk
Cabbage**

Scientist _____

Inside a Seed

1. Describe your dry seed. _____

2. Measure your seed.

Seed	Unit of Measure
Length	
Width	

3. Soak your seed in a cup of water overnight.

How is the wet seed different from the dry seed?

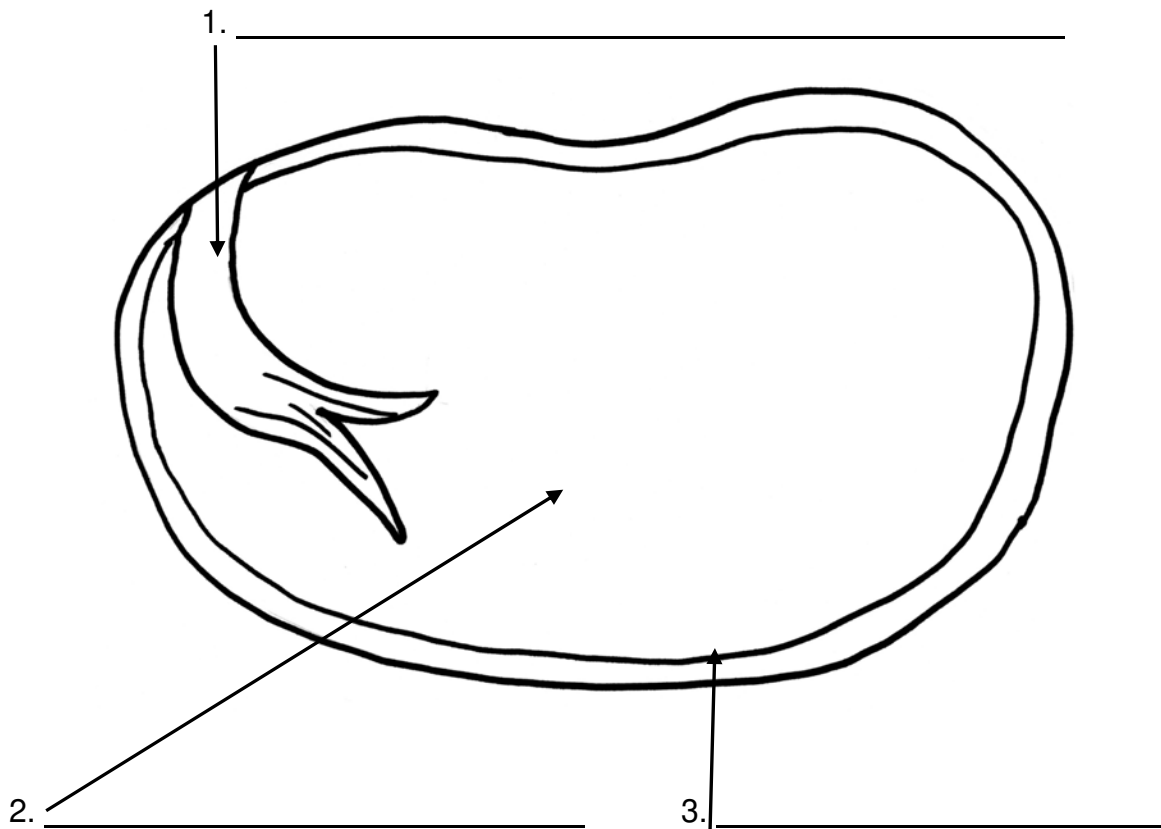
4. Split your seed in half. What does it look like inside? Find the tiny plant called the embryo. _____

5. Why do you think there is so much food stored for the embryo? ____

Scientist _____

Inside A Seed

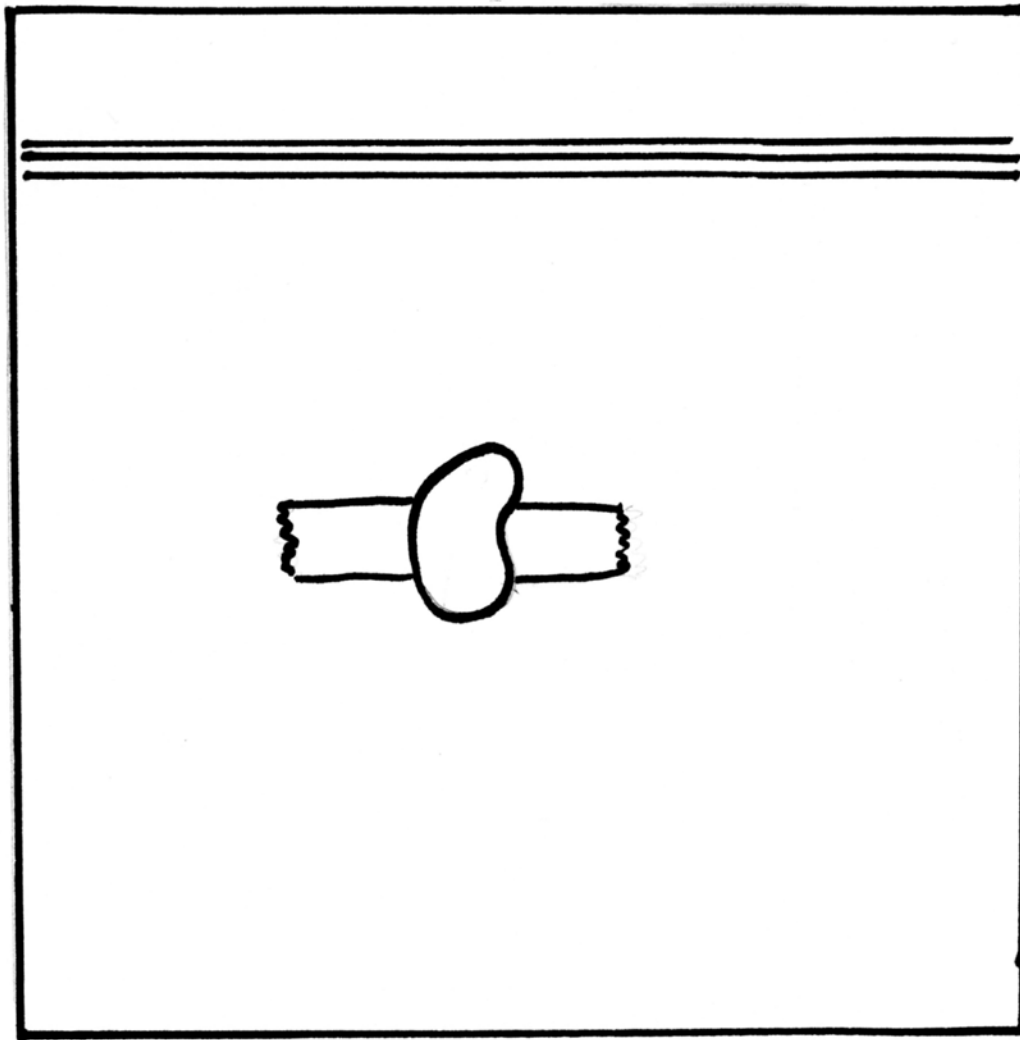
Label the bean plant parts: food storage, seed coat, little plant (embryo).



Scientist _____

A Seed Grows

Tape a lima bean to the inside of a ziplock sandwich bag. Measure the plants growth daily. Use the next page to make your predictions.



Draw your bean plant as it grows.

Scientist _____

A Seed Grows

	Prediction	Actual
1. Will the root or stem sprout first?	_____	_____
2. How many days will it take for the beans to sprout?	_____	_____
3. How many days will it take for the first leaves to grow?	_____	_____
4. How much does the root grow daily?	_____	_____
5. How much does the stem grow daily?	_____	_____
6. What else did you observe about your growing plant?		
	_____	_____
	_____	_____
	_____	_____
	_____	_____

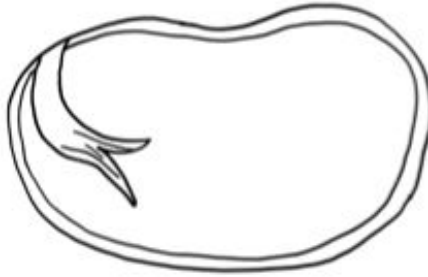
A Plants Beginnings

Let's plant seeds.

You'll need: Seeds
 Potting soil
 Container
 Plant Beginnings Observation Log

1. Prepare pot and potting soil.
2. Plant your seeds.
3. Keep the soil moist.
4. Make daily drawings and observations in your observation log.

A Plants Beginnings



Observation Log

Name _____

Date _____


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Observation Log





Day _____




--	--	--	--	--	--	--	--	--	--	--

Drawing



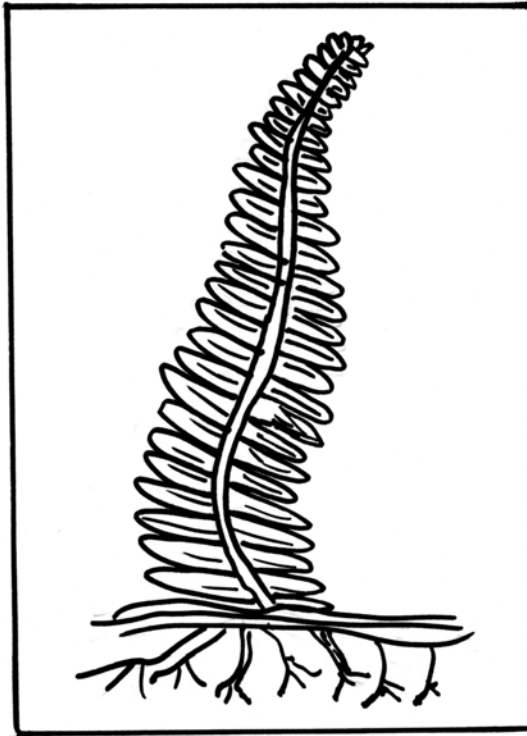
Plant Parts

Plant Part	Lingít Name	English Name
	<i>at x'aakeidí</i>	seed
	<i><u>x</u>aat</i>	root
	<i>a kadíx'i</i>	stem
	<i>kayaaní</i>	leaf

	<p><i><u>k</u>'eikaxwéin</i></p>	<p>flower</p>
	<p><i>tléi<u>k</u>w</i></p>	<p>fruit</p>
	<p><i>tukax<u>a</u>adí</i></p>	<p>bulb</p>

Scientist _____

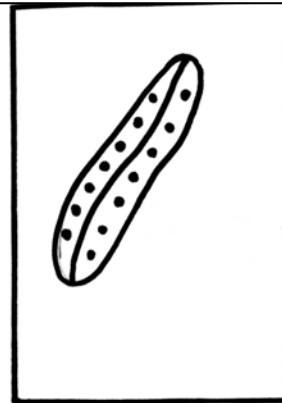
Fern Fronds



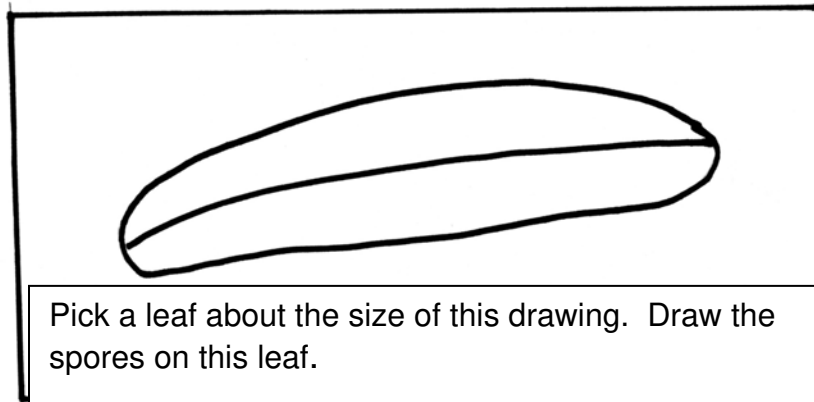
A fern is a green plant that grows from spores not seeds.

Use a hand lens to look at a real fern.

My frond has _____ leaves.



There are _____ spore cases on the above leaf.



Pick a leaf about the size of this drawing. Draw the spores on this leaf.



How We Make Fiddlehead Ferns

We pick the fiddleheads in the spring when they first come up from the fern plant.

We pick off some of the brown fuzz and wash them.

We boil the fiddleheads in water with a little salt until they are soft.

We drain off the water and add a little butter.

Then we eat them. Yummy!

Scientist _____

Root Study

Here's a drawing of my root.

• My root is colored _____.

• My root is _____ cm long and _____ cm wide.

• I could/could not eat this root.

• What do Tlingit people use roots for? _____

My root is from a _____.



How We Make Wild Sweet Potatoes

We dig the roots with a pitch fork.

We wash them.

We put them on a roasting stick.

We roast them over the fire.

Then we eat them. Yummy!

Scientist _____

Stem Study

1. Put water in a clear container.
2. Add 3-4 drops of food coloring.
3. Cut the end of the stem.
4. Place the stem in the glass.
5. Leave the stem in the glass overnight.

What happened? _____

Why _____

What stems do Tlingit people eat? _____

Here's a drawing of my stem.

My stem is from a _____.

Scientist _____

Flower in Water

Here's a drawing of my
flower in water.



Directions

- Pour water in a container.
- Add 3-4 drop of food coloring to water.
- Put a white carnation in the water.
- Leave in water overnight.

How did the flower change? _____

Scientist _____

Observe a Leaf

1. Here's a drawing of the leaf I found in the forest.

1. I found my leaf _____

2. My leaf is _____ cm long and _____ cm wide.

3. My leaf has the colors _____

4. My leaf feels like _____

5. My leaf smells like _____

6. What do Tlingit people use leaf designs for? _____

Scientist _____


Leaf Tour Guide

I went _____

_____ to gather leaves.

I picked up _____ leaves.

Here's a drawing of my leaf collection.



Scientist _____

Leaf Tour Guide

1. Choose your favorite leaf from you leaf collection.
2. Describe the color and shape of your leaf _____

3. Trace your leaf of the grid below.

4. Leaf length _____ Leaf wide _____ Leaf area _____ squares



How We Make Labrador Tea

We pick the Labrador Tea leaves in the late summer.

We boil them in water for about 5 minutes.

We put the tea through a strainer into a cup and add one spoon of lemon juice and one spoon of honey.

Then we drink it. Yummy!

Scientist _____

Observing Bulbs

Observing Bulbs

Using the wild rice bulb you gather on your field trip use your senses to observe your bulb. Draw and describe what it looks like and how you would prepare it for eating.



Here's a drawing of my bulb.

1. Observation

My bulb is a _____

It looks _____

It smells _____

It feels _____

2. I prepare my bulb for eating by _____

Scientist _____

Flowers

Here's a drawing of the flower
I found in the forest.

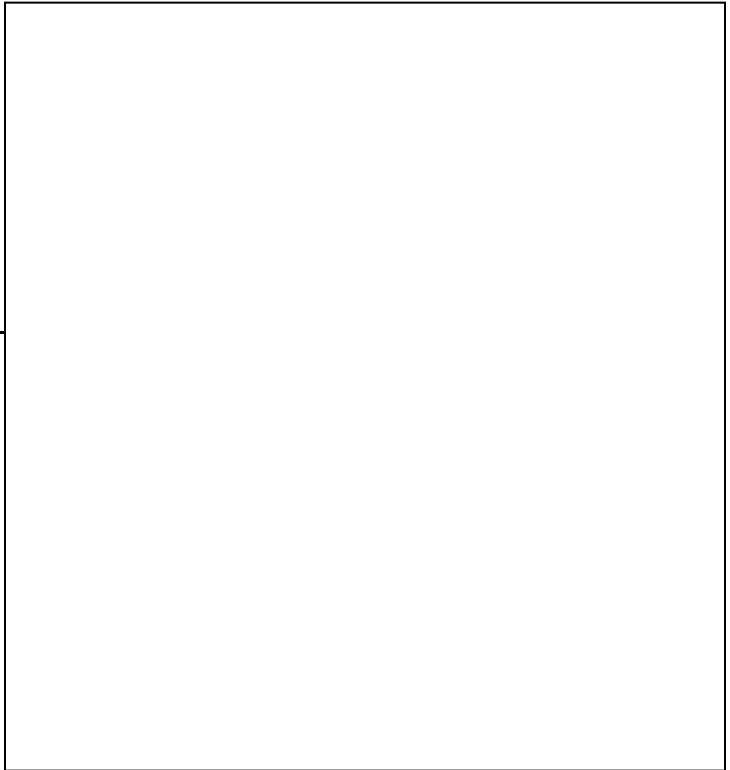
My flower has _____ petals

The petals are colored _____

The center is colored _____

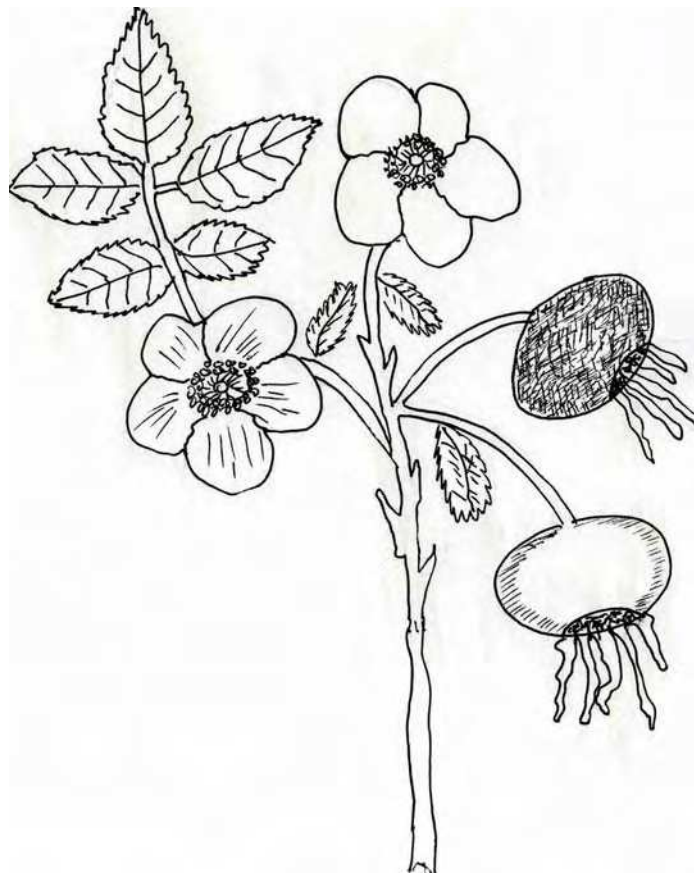
My flower smells like _____

_____.



What are flowers for? _____

My Plant Study Recipe Book



Name _____

Date _____

Draw the plant.



Write the recipe.

1. _____

2. _____

3. _____

4. _____

5. _____



How We Make Rose Hip Tea

First, we pick rose hips. We pick them when they are red and plump.

We take off the stems and brown, dried sepals.

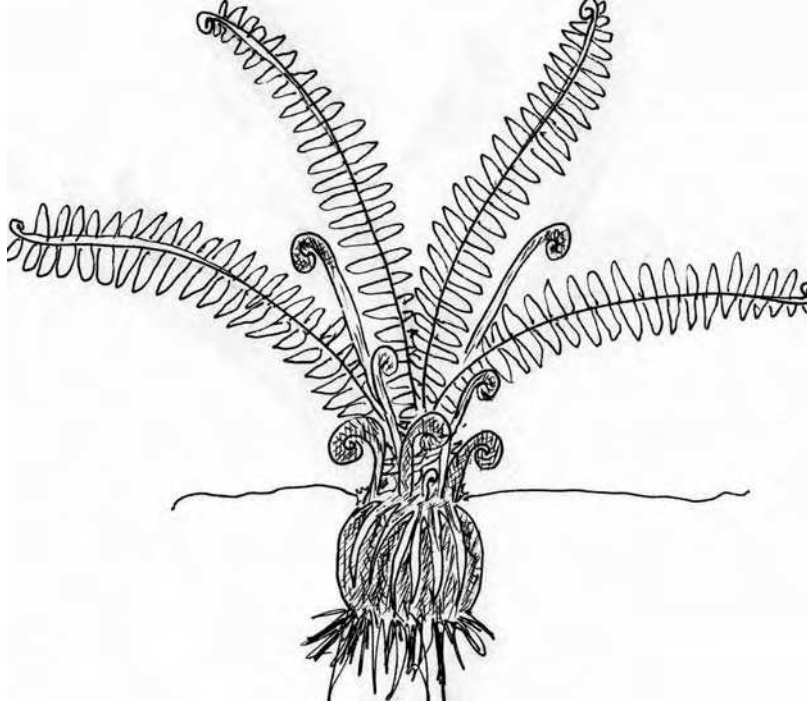
If we want to save the rose hips for the winter, this is when we dry them in the oven with very low heat.

Then we boil the rose hips in water until they are soft. We use about 5 rose hips for each cup of tea.

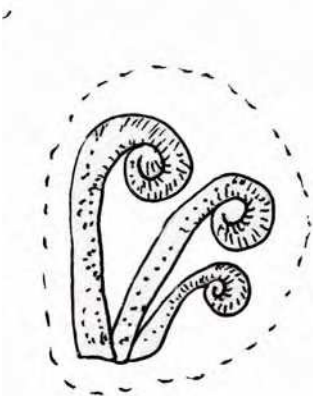
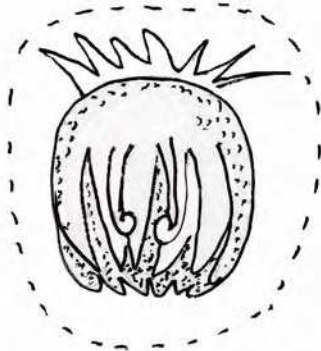
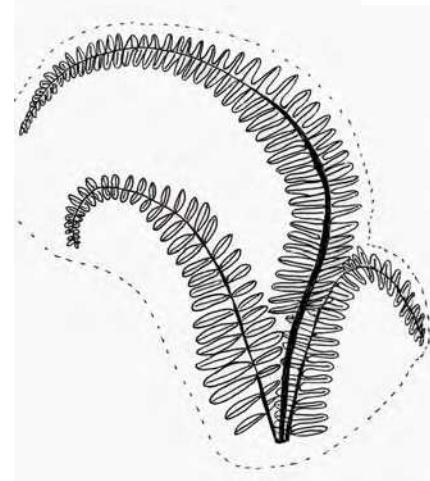
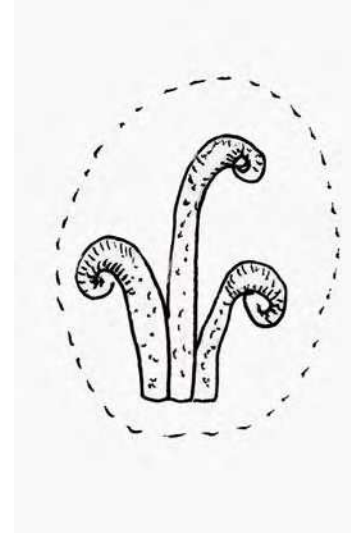
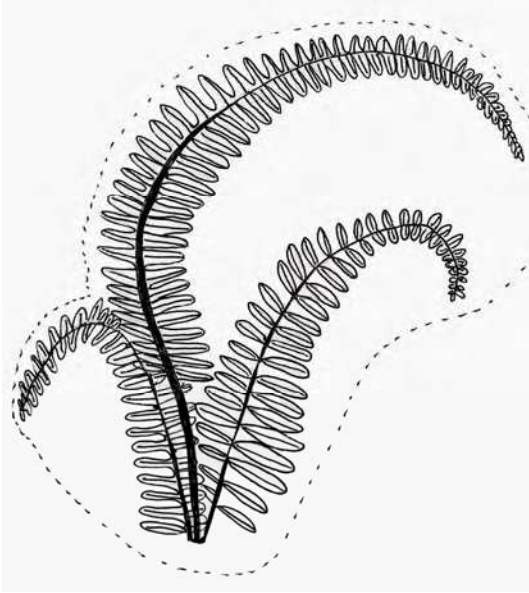
We put the tea through a strainer into a cup and add one spoon of lemon juice and one spoon of honey.

Then we drink it. Yummy!

***K'wálx* – Fiddlehead Fern**

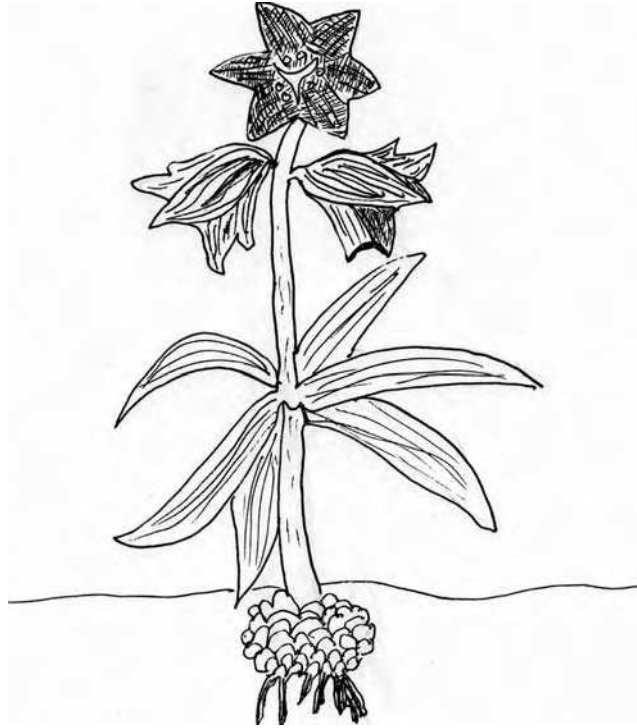


Color and paste the parts to a piece of construction paper to make fiddlehead ferns. Label the parts of your plant. Draw and color the fern's environment.

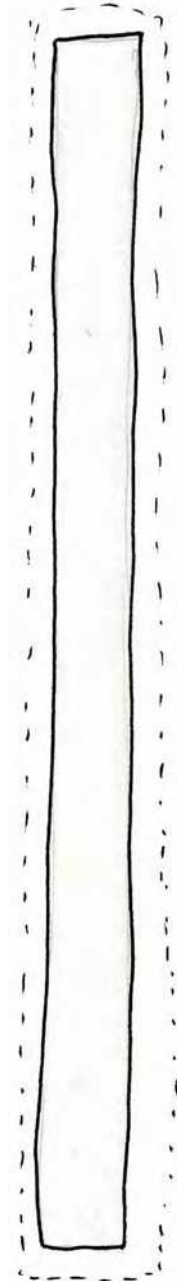
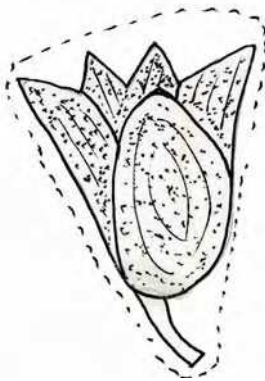
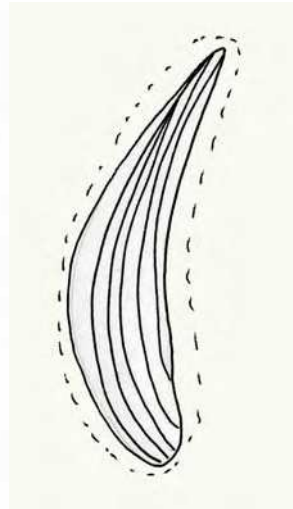
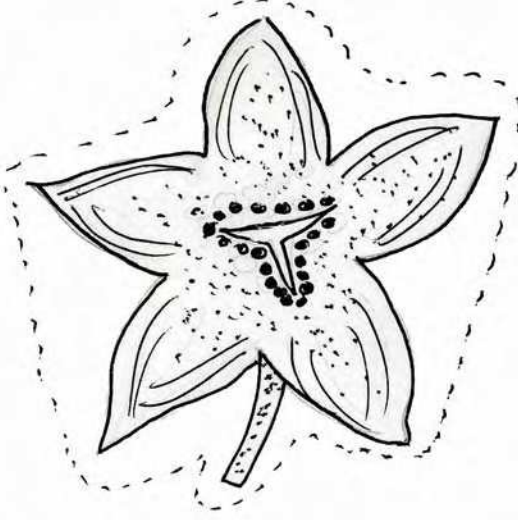
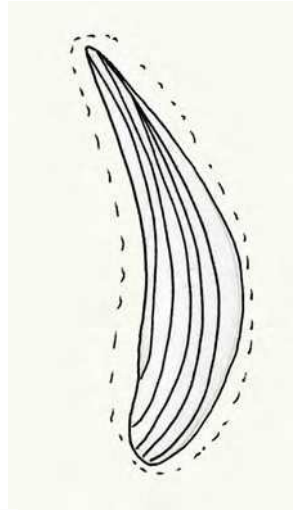
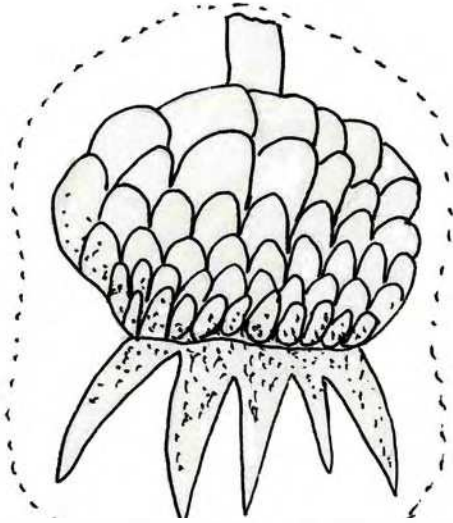


Língít	English
<i>k'eikaxwéin</i>	flower
<i>a kadíx'i</i>	stem
<i>kayaani</i>	leaf
<i>xaat</i>	root

***Kóox* - Chocolate Lily**

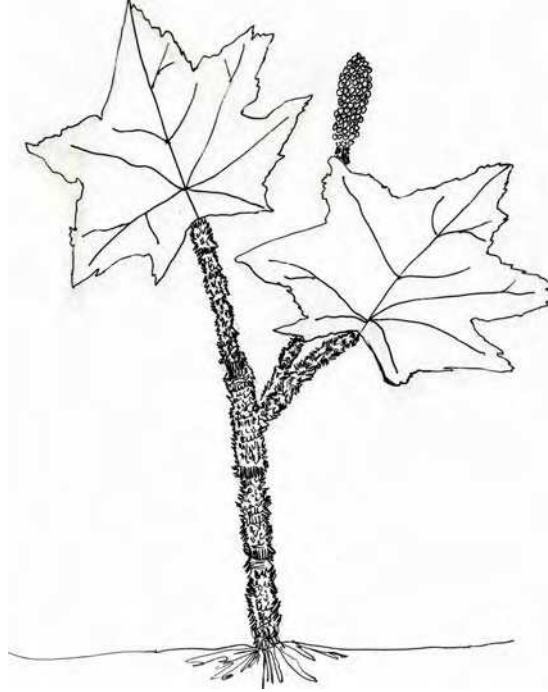


Color and paste the parts to a piece of construction paper to make a chocolate lily. Label the parts of your plant. Draw and color the chocolate lilies surroundings.

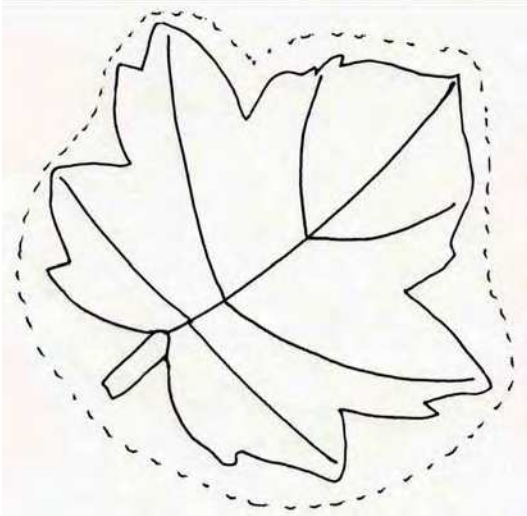
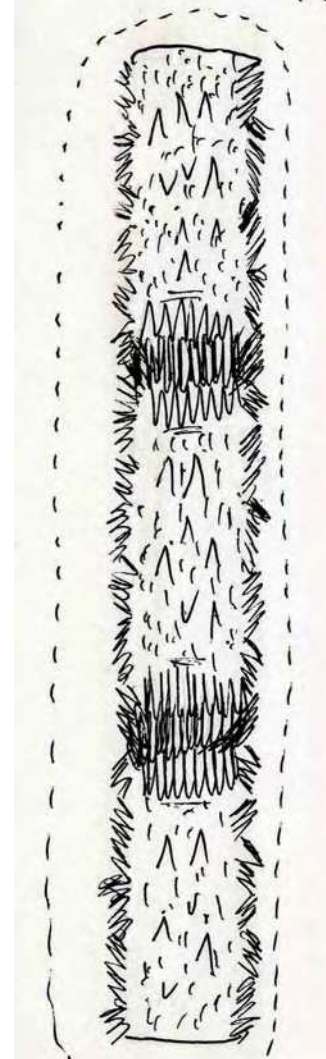
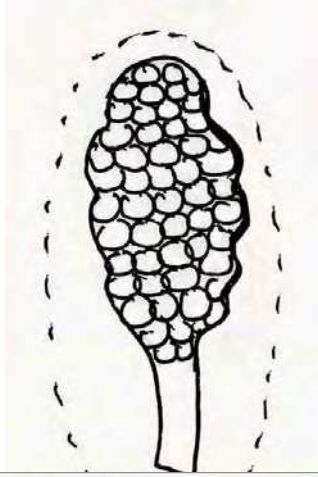


<i>Língit</i>	English
<i>k'eikaxwéin</i>	flower
<i>a kadix'i</i>	stem
<i>kayaaní</i>	leaf
<i>tukaxaadi</i>	bulb

S'axt' – Devil's Club



Color and paste the parts to a piece of construction paper to make a devil's club. Label the parts of your plant. Draw and color the devil's club surroundings.

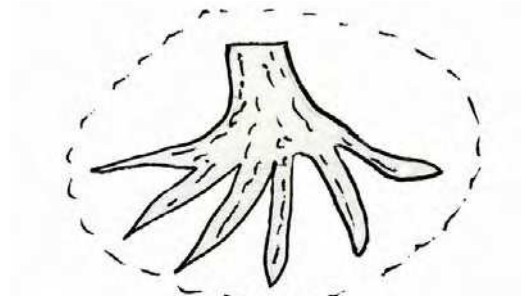
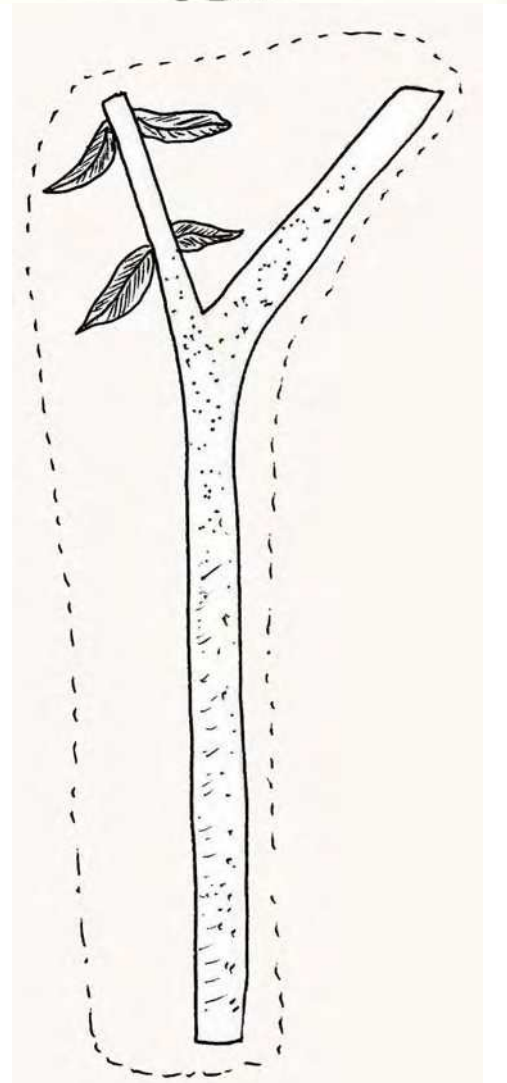
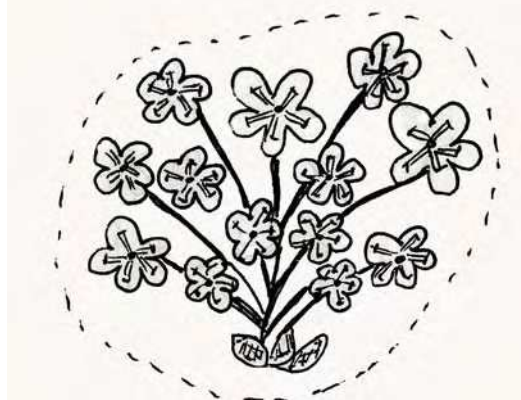


<i>Língit</i>	English
<i>k'eikaxwéin</i>	flower
<i>a kadix'i</i>	stem
<i>kayaaní</i>	leaf
<i>xaat</i>	root
<i>a daakak'ats'i</i>	thorn

***S'ikshaldéen* – Hudson Bay Tea**

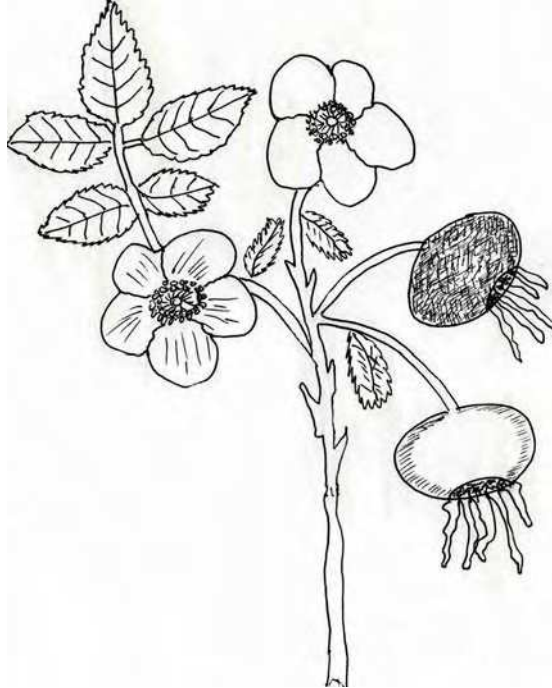


Color and paste the parts to a piece of construction paper to make Hudson's Bay Tea. Label the parts of your plant. Draw and color the devil's club surroundings.

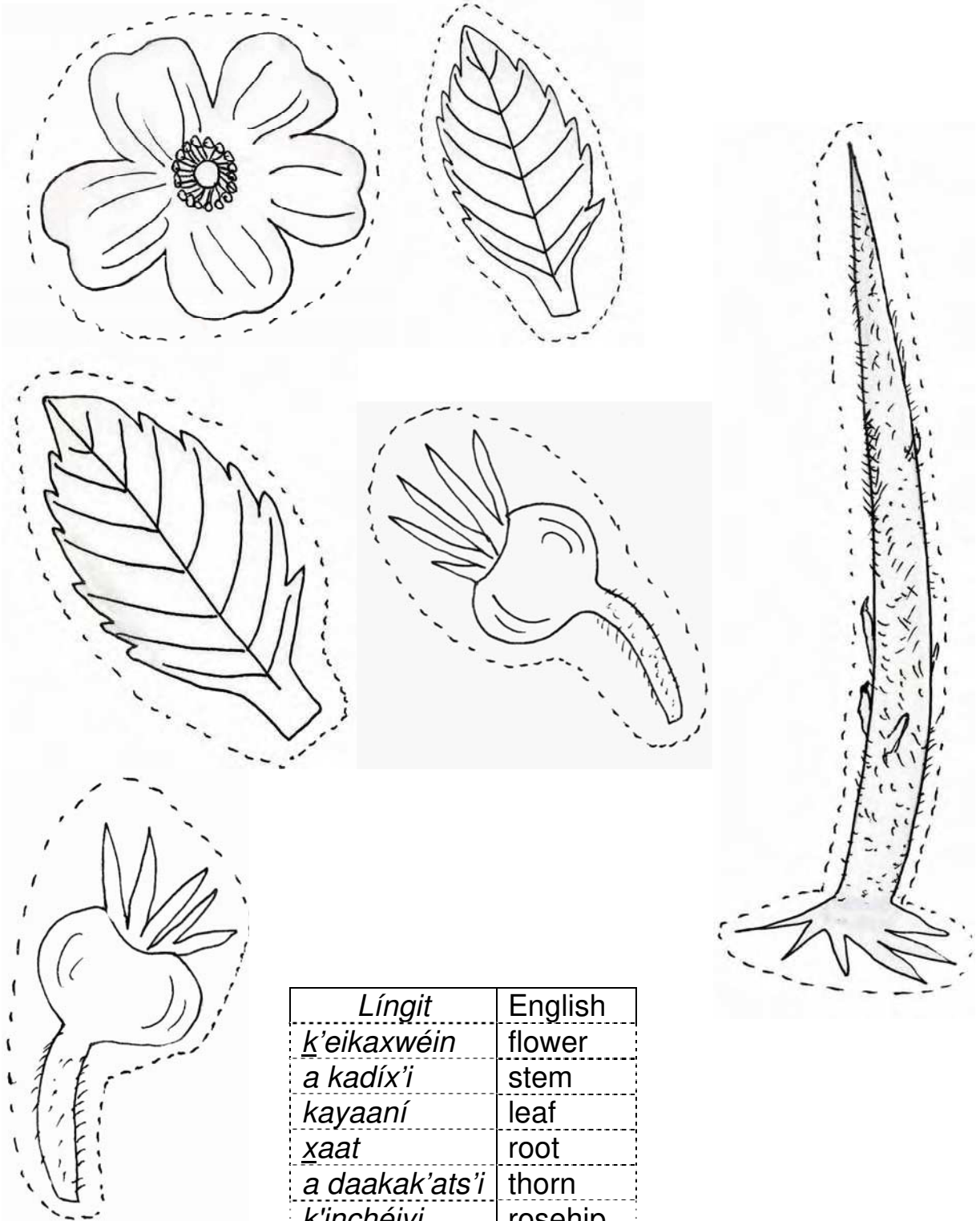


<i>Língít</i>	English
<i>k'eikaxwéin</i>	flower
<i>a kadíx'i</i>	stem
<i>kayaaní</i>	leaf
<i>xaat</i>	root

***K'inchéiyi* – Rosehips**

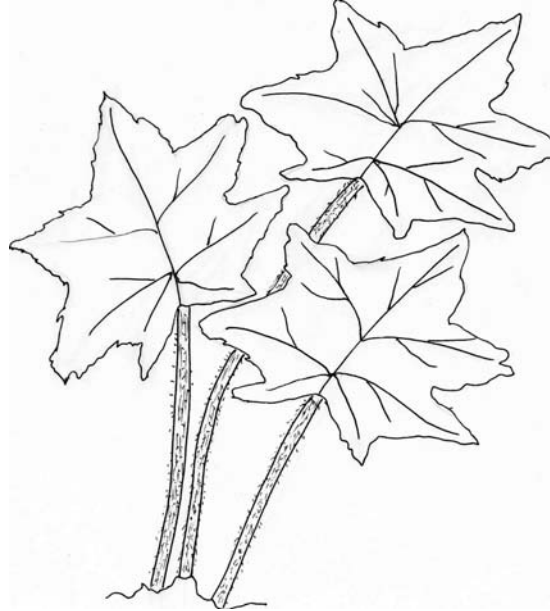


Color and paste the parts to a piece of construction paper to make a devil's club.
Label the parts of your plant. Draw and color the rose surroundings.

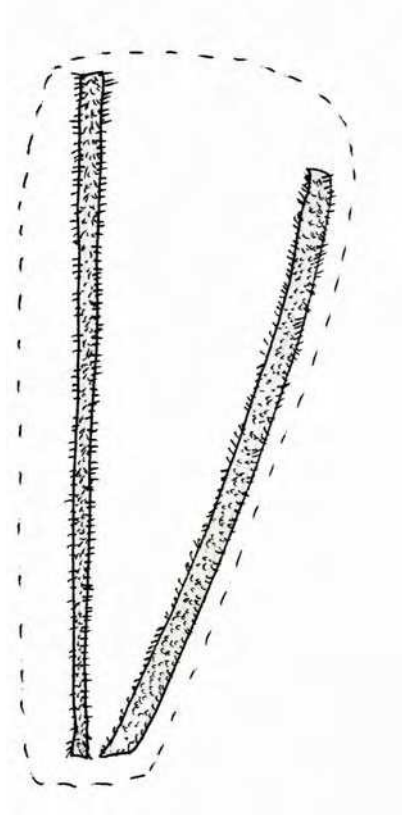
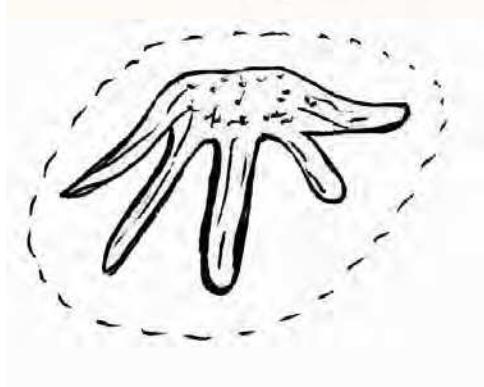
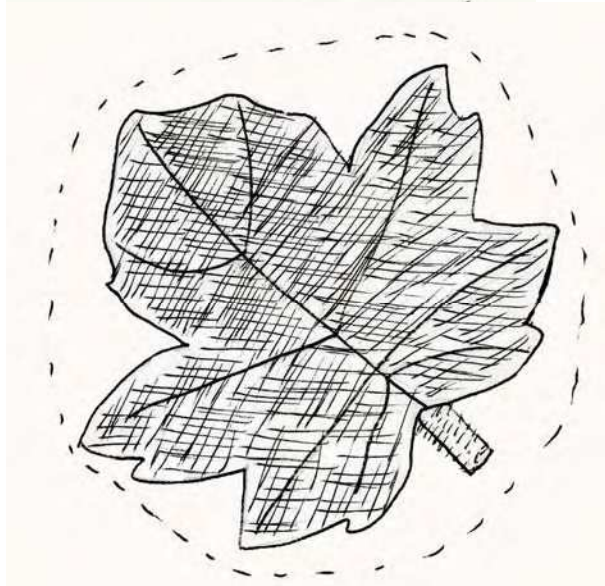
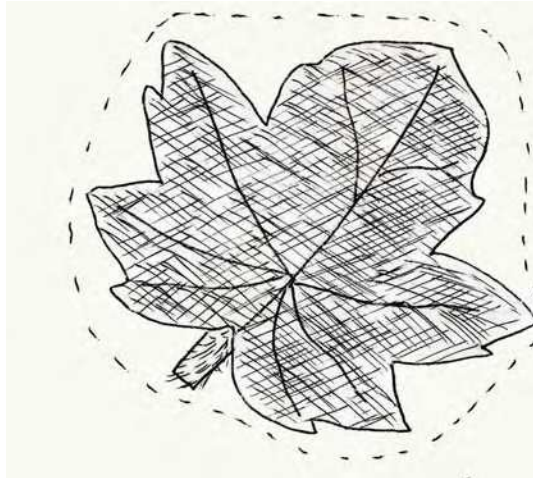


Língít	English
<i>k'eikaxwéin</i>	flower
<i>a kadíx'i</i>	stem
<i>kayaaní</i>	leaf
<i>xaat</i>	root
<i>a daakak'ats'i</i>	thorn
<i>k'inchéiyi</i>	rosehip

***Yaana.eit* – Indian Celery**



Color and paste the parts to a piece of construction paper to make Indian Celery. Label the parts of your plant. Draw and color the Indian Celery's environment.



<i>Língit</i>	English
<i>k'eikaxwéin</i>	flower
<i>a kadíx'i</i>	stem
<i>kayaaní</i>	leaf
<i>xaat</i>	roots
<i>a daakak'ats'i</i>	thorn



Kóox Tukaxaadi
Wild Rice Bulb



Kóox Kadíx'i
Chocolate Lily Stem



Kóox Kayaaní
Chocolate Lily Leaf



Kóox K'eikaxwéin
Chocolate Lily Flower



S'ikshaldéen

Hudson's Bay Tea

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S'ikshaldéen Kadíx'i

Hudson Bay Tea Stem



S'ikshaldéen Kayaaní
Hudson bay Tea Leaf

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S'ikshaldéen K'eikaxwéin
Hudson Bay Tea Flower



S'áxt'
Devil's Club



S'áxt' Kadíx'i
Devil's Club Stem



S'áxt' Kayaaní
Devils Club Leaf



S'áxt' Tléigu
Devil's Club Berry



K'wálx
Fiddlehead Fern



K'wálx Kadíx'i
Fiddlehead Fern Stem



K'wálx Kayaaní
Fiddlehead Fern Leaf



K'wálxsha
Fiddlehead



K'wálx
Fiddlehead Fern



K'inchéiyi
Rosehips



X'unéil' Kadíx'i
Rose Stem



X'unéil' Kayaaní
Rose Leaf



X'unéil' K'eikaxwéin
Rose Flower



X'áal'
Skunk Cabbage

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X'áal' Kayaaní
Skunk Cabbage Leaves

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X'áal' K'eikaxwéin
Skunk Cabbage Flower



Yaana.eit
Indian Celery



Yaana.eit Kayaaní
Indian Celery Leaves



***Yaana.eit* K'eikaxwéin**
Indian Celery Flowers



T'óok'

Nettle

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T'óok' Kayaaní
Nettle Leaves

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Tséit
Silverweed

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Tséit K'eikaxwéin
Silverweed Flower



Tséit Kayaaní
Silverweed Leaves

Kayaaní - Plant Unit

Tlingit Components

Lesson 1

Vocabulary

1. plants	<i>ka.éix át</i>
2. root	<i>xaat</i>
3. stem	<i>a kadíx'i</i>
4. leaf	<i>kayaaní</i>
5. flower	<i>k'eikaxwéin</i>
6. seed	<i>at x'aakeidí</i>
7. berry/fruit	<i>tléikw</i>

Phrases

8. This is the plant's (root).	<i>Ka.éix át (xaadí) áwé.</i>
9. This is the plant's (stem).	<i>Ka.éix át (a kadíx'i) áwé.</i>
10. This is the plant's (leaf).	<i>Ka.éix át (kayaaní) áwé.</i>
11. This is the plant's (flower).	<i>Ka.éix át (k'eikaxwéini) áwé.</i>
12. This is the plant's (seed).	<i>Ka.éix át (at x'aakeidí) áwé.</i>
13. This is the plant's (berry).	<i>Ka.éix át (tléiqu) áwé.</i>
14. Chocolate Lily (Rice Lily)	<i>kóox</i>
15. Fiddlehead Fern	<i>k'wálx</i>
16. Hudson Bay tea	<i>s'ikshaldéen</i>
17. Silverweed	<i>tséit</i>
18. Devil's club	<i>s'áxt'</i>
19. Indian Celery	<i>yaana.eit</i>
20. Nettle	<i>t'óok'</i>
21. Rose	<i>x'unéil ch'eeni</i>
22. Skunk cabbage	<i>x'áal'</i>

Lesson 2

Vocabulary

23. little plant	<i>kayaaní k'atsk'u</i>
24. embryo	<i>a tuyadi</i>
25. seed coat	<i>at x'aakeidí daakanóox'u</i>
26. stored food	<i>du x'ashagóon</i>
27. soaked seed	<i>at x'aakeidí kakél</i>
28. dry seed	<i>at x'aakeidí kaxúk</i>

Phrases

- | | |
|-----------------------------------|---|
| 29. Let's look at seeds! | <i>At x'aakeidí kagaxtooltéen!</i> |
| 30. Look at the seed. | <i>Wé at x'aakeidí yan kalatín.</i> |
| 31. Measure the seed. | <i>Nakaa wé at x'aakeidí.</i> |
| 32. Split/Break the seed in half. | <i>Wooshdáx nawaal' at x'aakeidí.</i> |
| 33. Put the seed in water. | <i>Heentaax' yei na.oo wé at x'aakeidí.</i> |

Lesson 3

Vocabulary

- | | |
|------------|------------------|
| 34. root | <i>xaat</i> |
| 35. stem | <i>a kadíx'i</i> |
| 36. sprout | <i>at shaadí</i> |

Phrases

- | | |
|---------------------------------------|--|
| 37. How many seeds are there? | <i>X'oon sá yatee wé at x'aakeidí?</i> |
| 38. We'll watch our seed grow. | <i>Haa at x'aakeidí gaxtulatéen.</i> |
| 39. When will it's leaves grow? | <i>Gwatgeen sá á kayaaní kakgwa.aa?</i> |
| 40. When will it's roots grow? | <i>Gwatgeen sá a xaadí kakgwa.aa?</i> |
| 41. The plants are growing. | <i>Kayaaní kei kana.éin.</i> |
| 42. We'll measure the stem everyday. | <i>Gaxtookaa a kadix'i ch'a tlákw yageeyí.</i> |
| 43. We'll measure the roots everyday. | <i>Gaxtookaa a xaadí ch'a tlákw yageeyí.</i> |

Lesson 4

Vocabulary

- | | |
|------------------|------------------|
| 44. pot | <i>k'wátl</i> |
| 45. potting soil | <i>kútl'kw</i> |
| 46. book | <i>x'úx'</i> |
| 47. sprout | <i>at shaadí</i> |

Phrases

- | | |
|------------------------------|---|
| 48. Put the soil in the pot. | <i>K'wátlx' i kaa yei na.oo wé kútl'kw.</i> |
| 49. Plant the seeds. | <i>Kanaháa wé at x'aakeidí.</i> |

50. Keep the soil moist.
kútl'kw.

Ch'a tlaakw kanaltl'ák'x wé

51. Record your observations in your book. *I yei jinéiyi kayshaxít i x'úx'u kaa yei na.oo.*

Lesson 5

Vocabulary

52. fern	<i>k'wálx</i>
53. fern root	<i>k'wálx xaadí</i>
54. fern frond	<i>k'wálx kayaaní</i>
55. fiddlehead	<i>k'wálx shá</i>
56. spores	<i>shkaxéeni</i>
57. dig up	<i>kei kayhaa</i>
58. shovel	<i>kutl'ídaa</i>
59. wash (clean)	<i>na.óos'</i>
60. cook (steam)	<i>kalakásh</i>
61. salt	<i>éil'</i>
62. butter	<i>gwáata</i>

Phrases

63. Ferns have seeds called spores. <i>yei duwasáakw.</i>	<i>K'wálx x'aakeidí a shakaxéeni</i>
64. Can you find the spores? <i>kukqeeshee?</i>	<i>Wé shakaxéeni gé a káx</i>
65. Let's look for ferns.	<i>K'wálx agaa kugaxtooshée.</i>
66. Let's dig up a fern plant.	<i>K'wálx kei kagatoosahaa.</i>
67. Let's pick fiddleheads.	<i>K'wálxshá gatoos.een.</i>
68. Let's wash fiddleheads.	<i>K'wálxshá naxtoo.óos'.</i>
69. Let's steam fiddleheads.	<i>K'wálxshá kaxlakásh.</i>
70. Let's eat fiddleheads.	<i>K'wálxshá gaxtoo_xaa.</i>
71. Eat.	<i>At <u>xá</u>.</i>

Lesson 6

Vocabulary

72. indian potato	<i>tsáats</i>
73. tap roots (fat roots)	<i>k'ikaxaadí</i>
74. fibrous roots (thin roots)	<i>s'ú</i>
75. sweet potato	<i>tséit</i>

76. onion	<i>yeiltáxi</i>
77. carrot	<i>s'ín</i>
78. turnip	<i>t'l'aadéin aa</i>
79. draw	<i>a yahaayí kayshaxít</i>

Phrases

80. Draw the root.	<i>Wé <u>x</u>aat yaháayi kayshaxít.</i>
81. Measure the root.	<i>Nakaa wé <u>x</u>aat.</i>

Lesson 7

Vocabulary

82. tubes	<i>a tóonáx héen naadaayi át</i>
83. celery	<i>tukatási</i>
84. rhubarb	<i>t'l'aak'wách'</i>
85. asparagus	<i>súkkadzi</i>
86. broccoli	<i>aas k'eikaxwein</i>
87. Devil's Club	<i>s'áxt'</i>
88. thorny outer bark	<i>at daakak'áts'i looní</i>
89. green inner bark - cambium layer	<i>at lách'i</i>
90. scrape	<i>xáas'</i>
91. peel/strip	<i>a daaka.ádi</i>
92. boil	<i>satá</i>
93. pot	<i>k'wátl</i>
94. flower	<i>k'eikaxwéin</i>
95. bead	<i>kawóot</i>

Phrases

96. Cut the stem.	<i>Wé at kadix'i aax nalxash.</i>
97. Scrape the outer bark.	<i>A daa looní aax xáas'.</i>
98. Cut the cambium into strips.	<i>A daaka.ádich at lách'i nalxash.</i>
99. Boil the strips.	<i>A daaka.ádi satá.</i>

Lesson 8

Vocabulary

100. green leaves	<i>kayaaní</i>
101. food	<i>At xá</i>
102. nettles	<i>took'</i>
103. tea	<i>cháayu</i>
104. veins in the leaves	<i>kayaaní téet'i</i>

105. smooth	<i>kaawax'íl'</i>
106. rough	<i>kasix'áx</i>
107. long	<i>yayát'</i>
108. narrow	<i>yei koosáa</i>
109. wide	<i>yawúx'u aa</i>
110. short	<i>yei kawdliiyáatl'</i>
111. needle - like leaves	<i>gítgaa</i>
112. jagged edges	<i>kayaaní wán k'áts'</i>

Phrases

113. Plants make their own food. <i>s adané.</i>	<i>Ka.éix.át chá has du at xaayi yei</i>
114. We eat plant leaves.	<i>Ka.éix.át kayaaní tooxá.</i>
115. We eat lettuce leaves.	<i>Lettuce kayaaní tooxá.</i>
116. We eat spinach leaves.	<i>Spinach kayaaní tooxá.</i>
117. We eat cabbage leaves.	<i>Cabbage kayaaní tooxá.</i>
118. We eat nettles.	<i>Tóok' tooxá.</i>
119. We make tea from leaves.	<i>Kayaaní cháayu yax toolook.</i>

Lesson 9

Vocabulary

120. Chocolate lily (Indian Rice)	<i>kóox</i>
121. bulb/rhizome	<i>tukaxaadí</i>
122. bulblet (rice-like kernel)	<i>kóox yáx x'aakeidí</i>
123. garlic bulb	<i>si.aaxu yeiltáxi tukaxaadí</i>
124. onion bulb	<i>yeiltáxi tukaxaadí</i>
125. flower bulb	<i>k'eikaxwéin tukaxaadí</i>

Phrases

126. My bulb looks like an (onion). <i>uwayaa.</i>	<i>Ax tukaxaadí (yeiltáxi) yáx at</i>
127. My bulb smells like an (onion). <i>adzineex'.</i>	<i>Ax tukaxaadí (yeiltáxi) yáx</i>
128. My bulb feels like an (onion). <i>dinook.</i>	<i>Ax tukaxaadí (yeiltáxi) yáx jee</i>
129. A Chocolate Lily has a brown flower. <i>s'agwaat yáx yatee.</i>	<i>Kóox k'eikaxwéini</i>
130. A Chocolate Lily has a bulb.	<i>Kóox tukaxaadíx sitee.</i>
131. We can cook the rice.	<i>Gaxtoosa.ee wé kóox.</i>

Lesson 10

Vocabulary

132. flower	<i>k'eikaxwéin</i>
133. petals	<i>léixwen yádi</i>
134. sepal	<i>a shakayaaní</i>
135. pollen	<i>a kadanjayí</i>
136. seed	<i>at x'aakeidí</i>
137. fruit/berry	<i>tléikw</i>
138. bees	<i>gandaas'aají</i>
139. bird	<i>ts'ítskw</i>
140. butterfly	<i>tleilóo</i>

Phrases

141. Lets find the parts of a flower.	<i>K'eikaxwéin daa.átk'i gaa kugaxtushee.</i>
142. Look for the (petals).	<i>(Léixwen yádi) agaa anayeelgéin.</i>
143. I found the (petals).	<i>(Léixwen yádi) kax kuxwashee.</i>
144. I found the (sepal).	<i>(A shakayaaní) kax kuxwashee.</i>
145. I found the (pollen).	<i>(A kadanjayí)kax kuxwashee.</i>

Lesson 11

Vocabulary

146. wild rose bush (small rosehips)	<i>x'unéil' was'i</i>
147. sitka rose bush (large rosehips)	<i>x'unéil' tléin was'i</i>
148. rosehips	<i>k'inchéiyi</i>
149. fruit/berry	<i>tléikw</i>
150. seed	<i>at x'aakeidí</i>
151. thorn	<i>a daakak'ats'i</i>
152. honey	<i>gandaas'aají háatl'i</i>

Phrases

153. I am picking rosehips.	<i>K'inchéiyi xa.een.</i>
154. It's thorns are sharp.	<i>A daakak'áts'i yakl'ik'áts'.</i>
155. Ouch! I got poked!	<i>Ax dat áyá wdigich!</i>
156. How many rosehips do you have?	<i>X'oon k'inchéiyi sá i jeewú?</i>
157. I have three.	<i>(Nás'k) ax jeewú.</i>
158. I like rosehip tea.	<i>K'inchéiyi chaayú ax x'éi yak'éi.</i>
159. It's delicious!	<i>Kunáx x'éigak dinook!</i>