Éek

BEACH

Grade Levels K-1

TEACHER RESOURCES

Sealaska Heritage Institute

City and Borough of **Juneau School District**

Old Woman of the Tides Stick Puppets

Directions
1. Cut pictures on dotted lines.
2. Tape or glue popsicle sticks to the back of each picture.
3. Use stick puppets to retell legend.

Yéil
Raven

Ch'áak'
Eagle

Shaawát
Woman

Tóos'
Shark

Old Woman of the Tides

Illustrated by_____

Date_____

Raven is hungry. He looks for food. He finds
Shark. Shark swims. He has a stick in his
mouth.

Raven takes the stick from Shark. He puts it on the bottom of the sea. He climbs down to find sea urchins. Raven likes sea urchins.

Page 2

Raven picks many sea urchins for a party.

Raven goes up. He jumps on the beach. He eats the sea urchins. He uses a rock to open them.

Page 4

Raven listens. "How did you get the sea urchins Raven? What was the tide?" No one is there. There is a big rock. It has a crack in it.

Raven eats more sea urchins. He sees Eagle in the sky.
"Eagle, want to eat with me?"

Raven and Eagle eat. They listen. The Old Woman of the Tides talks. She can make the tides low or high.

Raven and Eagle make a plan to get the Old Woman raise and lower the tide. When they hear the voice again, they put the plan into action. Eagle flies to the edge of the ocean to watch the tide and Raven cracks open the rock and finds the Old Woman of the Tides.

Raven tells the Old Woman to make tides the same. "No" she tells him.
Raven puts a sea urchin shell on her bottom – so she will make the tide go down.

Now the tides go up and down at the same time.
Raven is happy.

Inter-tidal Zone		Animal	Tlingit Name	Phylum	Traditional Uses
Splash Zone		Snail (Periwinkle)	*Ts'íx'w*	Mollusk	Edible. Eaten like squid and octopus.
Upper Inter-tidal Zone		Barnacle	*S'ook*	Crustacean	None
		Hermit Crab	*Noow S'áawk'w*	Mollusk	Edible. Used for survival purposes.
		Snail (Periwinkle)	*Ts'íx'w*	Mollusk	Edible. Can be eaten raw. Boil quickly, remove meat from shell.

		Limpets (some)	*Yéil Ts'áaxu*	Mollusk	Edible. Can be eaten raw.
		Tidepool sculpin	*Weixʼ*		None
Mid Inter-tidal Zone		Mussels	*Yaak*	Mollusk	Eatable. Gathered, steamed and eaten. Orange meat considered a delicacy. May be affected by paralytic shellfish poisoning.
		Limpets (some)	*Yéil Ts'áaxu*	Mollusk	Edible. Can be eaten raw.

	Sea anemones	*Tayataayí*	Cnidaria	None
	Sea urchins	*Nées'*	Echinoderm	Edible. Can be eaten raw, boiled whole or roasted over a fire. The orange eggs are a delicacy.
	Sea cucumbers	*Yein*	Echinoderm	Edible. Cut lengthwise, peel white muscles out – eat raw, sauté or add to chowder.
	Hermit Crabs	*Noow S'áawk'w*	Mollusk	None

Low Inter-tidal Zone		Sea stars	S'áx	Echinoderm	Ground up and mixed with fish remains and seaweed and used to fertilize gardens.
		Sea urchins	Nées'	Echinoderm	Edible. Can be eaten raw, boiled whole or roasted over a fire. The orange eggs are a delicacy.
		Sea cucumbers	Yein	Echinoderm	Edible. Cut lengthwise, peel white muscles out – eat raw, sauté or add to chowder.
		Limpets (some)	Yéil Ts'áaxu	Mollusk	Edible. Can be eaten raw.

		Gumboots - Chiton	*Shaaw*	Mollusk	Edible. Removed from rocks with a knife. Tenderized by pounding on prior to cooking. Can be pickled and jarred.
		Clams	*Gáal'*	Mollusk	Edible. Gathered at minus tide. Smoked in smoke house. Sautéed, jarred and/or added to chowder. May be affected by paralytic shellfish poisoning.
		Cockle	*Yalooleit*	Mollusk	Edible. Gathered at minus tide. Smoked in smoke house. Sautéed, jarred and/or added to chowder. May be affected by paralytic shellfish poisoning.

Éek.ádi

Beach Creatures

Ts'ésx'w

Snails

S'ook

Barnacles

Noow S'aawk'w

Hermit Crab

Yaak

Mussels

Yéil ts'áaxu

Limpets

Tayataayí

Sea anemone

Nées'

Sea urchin

Yéin

Sea cucumber

S'áx

Sea star

Shaaw

Gumboots

Gáal'

Clams

Weix'

Tidepool Sculpin

Beach Creature Cards

S'ook
Barnacle

Noow s'áawk'w
Hermit Crab

Ts'ix'w
Periwinkle/Snail

Yéil ts'áaxu
Limpet

Gáal'
Clam

Nées'
Sea Urchin

Tayataayí
Sea Anemone

Shaaw
Gumboot/Chiton

Yaak
Mussel

Yéil ts'áaxu
Limpet

Yéin
Sea cucumber

S'áx
Sea star

Léin Wooch T'agak̲óot
Beach Zones

Téet x'atú
Splash Zone

Léin tlein
Upper interidal zone

Héen kweiyí
Mid intertidal zone

Léin wán
Low intertidal zone

Enlarge to legal size paper.

Beach Creatures

Cut and glue creature to the appropriate zone on the inter-tidal beach zone page.

Name_____Date_____

Beach Creature Name Match

Draw a line from the beach creature to its name.

	wéix̱'
	noow s'áawk'w
	shaaw
	s'ook
	s'áx̱

Name_____Date_____

Beach Creature Name Match

Draw a line from the beach creature to its name.

	nées'
	yéil ts'áaxu
	tayataayí
	gáal'
	yaak

Name   Date

Beach Creature Name Match

Draw a line from the beach creature to its name.

sea star

tidepool sculpin

barnacles

hermit crab

gumboot

Name_____Date_____

Beach Creature Name Match

Draw a line from the beach creature to its name.

          clams

          limpets

          mussels

          sea anemone

          sea urchins

Neechdéi Xwaagoot

S'ook xwasiteen.

18   3

Ts'ésx'w xwasiteen.

14   7

Sheet 1 Front

Shaaw ẋwasiteen.

4

Nées' ẋwasiteen.

17

8

Yaak ẋwasiteen.

13

20

Neechdéi Xwaagoot

16

Noow s'aawk'w xwasiteen.

5

12

Yéil ts'áaxu xwasiteen.

9

Sheet 2 Front

2

S'áx xwasiteen.

19

6

Tayataayí xwasiteen.

15

10

Weix' xwasiteen.

11

I Went to the Beach

I saw barnacles.

16   3

I saw snails.

14   7

Sheet 1 Front

I saw gumboots.

I saw sea urchins.

4

17

I saw mussels.

8

13

Sheet 1 Back

20.

I Went to the Beach

I saw hermit crabs.

16.   5

I saw limpets.

12.   9

Sheet 2 Front

I saw sea stars.

19

I saw sea anemones.

15

I saw tidepool sculpins.

11

Sheet 2 Back

Univalves and Bivalves

Photos from http://www.sxc.hu/

Photos from http://www.sxc.hu/

Photos from http://www.sxc.hu/

Hermit Crab Activity

Directions
1. Draw a home for hermit crab.

Five Little Sea Shells

Five little seashells lying on the shore,

Swish! went the waves, and then there were four.

Four little seashell cozy as could be!

Swish! went the waves, and then there were three.

Three little seashells all pearly new;

Swish! went the waves, and then there were two.

Two little seashells sleeping in the sun;

Swish! went the waves, and then there was one.

One little seashell left all alone
Whispered "Shhhh" as I took it home.

Sea Star Pattern

Ée<u>k</u> **- Beach**
BINGO

B	I	N	G	O
		FREE		

Éek - Beach
BINGO

B	I	N	G	O
		FREE		

Ée<u>k</u> - Beach
BINGO

B	I	N	G	O
		FREE		

Éek - Beach
BINGO

B	I	N	G	O
		FREE		

Ée̱k - Beach
BINGO

B	I	N	G	O
		 FREE		

Éek - Beach
BINGO

B	I	N	G	O
		 FREE		

Éek - Beach
BINGO

B	I	N	G	O
		FREE		

Éek - Beach
BINGO

B	I	N	G	O
		 FREE		

Éek - Beach
BINGO

B	I	N	G	O
		 FREE		

Ée̱k - Beach
BINGO

B	I	N	G	O
		FREE		

Ée<u>k</u> - Beach
BINGO

B	I	N	G	O
		 FREE		

Éek - Beach
BINGO

B	I	N	G	O
		 FREE		

Ée<u>k</u> - **Beach**
BINGO
Calling Pieces

B	I	N	G	O
B	**I**	**N**	**G**	**O**
Ts'íx'w Snails	***Ts'íx'w*** Snails	***Ts'íx'w*** Snails	***Ts'íx'w*** Snails	***Ts'íx'w*** Snails
B	**I**	**N**	**G**	**O**
S'ook Barnacles	***S'ook*** Barnacles	***S'ook*** Barnacles	***S'ook*** Barnacles	***S'ook*** Barnacles
B	**I**	**N**	**G**	**O**
Noow s'áawk'w Hermit crab	***Noow s'áawk'w*** Hermit crab	***Noow s'áawk'w*** Hermit crab	***Noow s'áawk'w*** Hermit crab	***Noow s'áawk'w*** Hermit crab
B	**I**	**N**	**G**	**O**
Yaak Mussels	***Yaak*** Mussels	***Yaak*** Mussels	***Yaak*** Mussels	***Yaak*** Mussels
B	**I**	**N**	**G**	**O**
Yéil ts'áaxu Limpets	***Yéil ts'áaxu*** Limpets	***Yéil ts'áaxu*** Limpets	***Yéil ts'áaxu*** Limpets	***Yéil ts'áaxu*** Limpets
B	**I**	**N**	**G**	**O**
Tayataayí Sea anemone	***Tayataayí*** Sea anemone	***Tayataayí*** Sea anemone	***Tayataayí*** Sea anemone	***Tayataayí*** Sea anemone
B	**I**	**N**	**G**	**O**
Nées' Sea urchin	***Nées'*** Sea urchin	***Nées'*** Sea urchin	***Nées'*** Sea urchin	***Nées'*** Sea urchin

B	I	N	G	O
S'áx Sea star	**S'áx** Sea star	**S'áx** Sea star	**S'áx** Sea star	**S'áx** Sea star
Shaaw Gumboot	**Shaaw** Gumboot	**Shaaw** Gumboot	**Shaaw** Gumboot	**Shaaw** Gumboot
Gáal' Clams	**Gáal'** Clams	**Gáal'** Clams	**Gáal'** Clams	**Gáal'** Clams
Wéix' Tidepool Sculpin	**Wéix'** Tidepool Sculpin	**Wéix'** Tidepool Sculpin	**Wéix'** Tidepool Sculpin	**Wéix'** Tidepool Sculpin
Yéin Sea cucumber	**Yéin** Sea cucumber	**Yéin** Sea cucumber	**Yéin** Sea cucumber	**Yéin** Sea cucumber

Neechdéi X̱waagoot

18

[] S'ook x̱wasiteen.

[] S'ook tlél x̱wasateen.

3

14

[] Ts'ésx'w x̱wasiteen.

[] Ts'ésx'w tlél x̱wasateen.

7

Sheet 1 Front

[] Shaaw x̲wasiteen.

[] Shaaw tlél x̲wasateen.

[] Nées' x̲wasiteen.

[] Nées' tlél x̲wasateen.

4   17

[] Yaak x̲wasiteen.

[] Yaak tlél x̲wasateen.

8   13

20

[] Noow s'aawk'w xwasiteen.

[] Noow tlél xwasateen.

16

5

[] Yéil ts'áaxu xwasiteen.

[] Yéil ts'áaxu tlél xwasateen.

12

9

[] S'áx xwasiteen.

[] S'áx tlél xwasateen.

2   19

[] Tayataayí xwasiteen.

[] Tayataayí tlél xwasateen.

6   15

[] Weix' xwasiteen.

[] Weix' tlél xwasateen.

10   11

Sea Week Learning Log

Name _____

Date _____

HARVEST TIME AT THE BEACH
Collecting Alaskan Native Foods Between The Tides

SPRING **SUMMER** **ALL SEASONS** **WINTER** **AUTUMN**
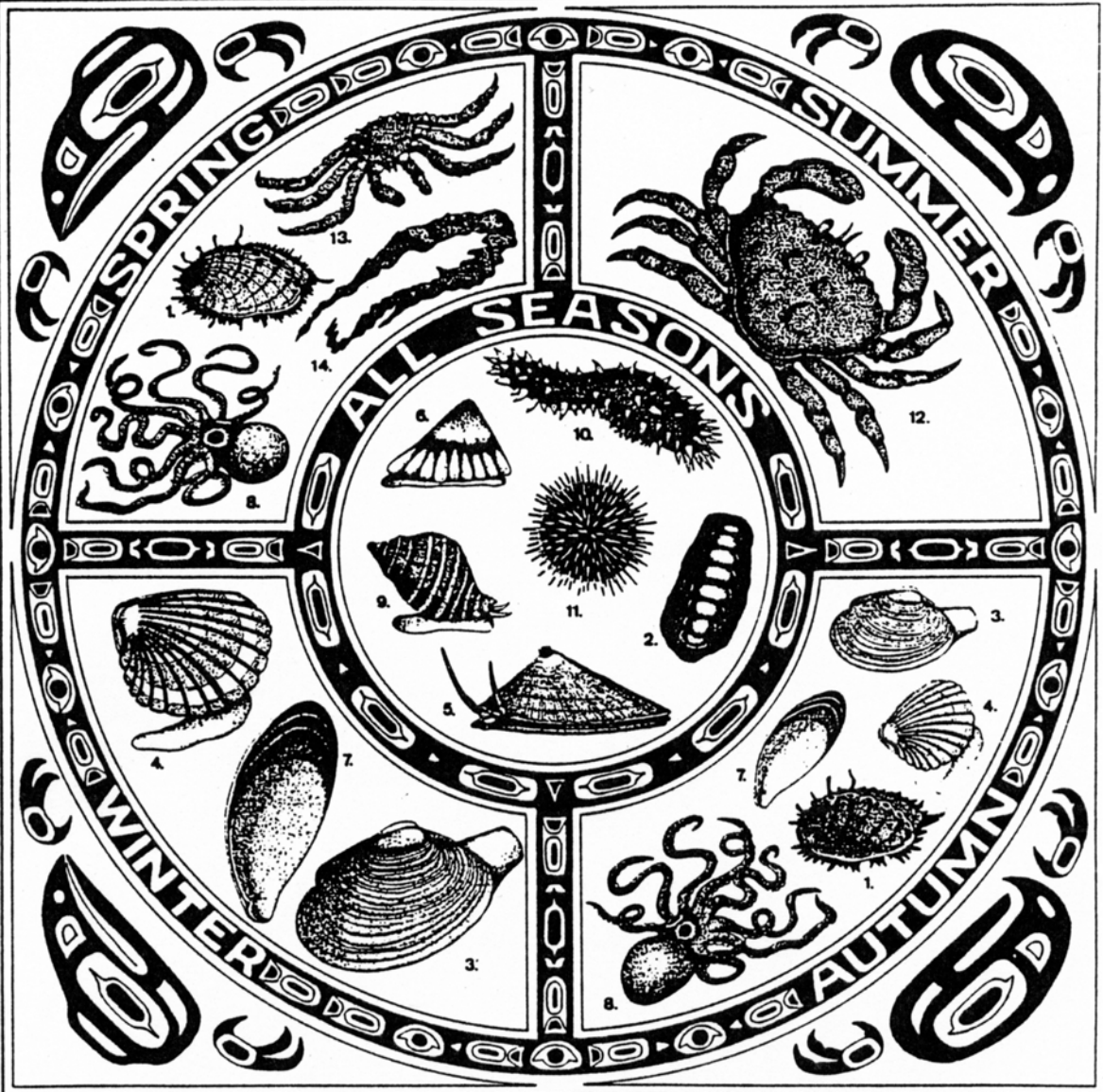
MOLLUSKS
1. Abalone 2. Chiton 3. Clam
4. Cockle 5. Keyhole Limpet
6. Limpet 7. Mussel 8. Octopus
9. Whelk
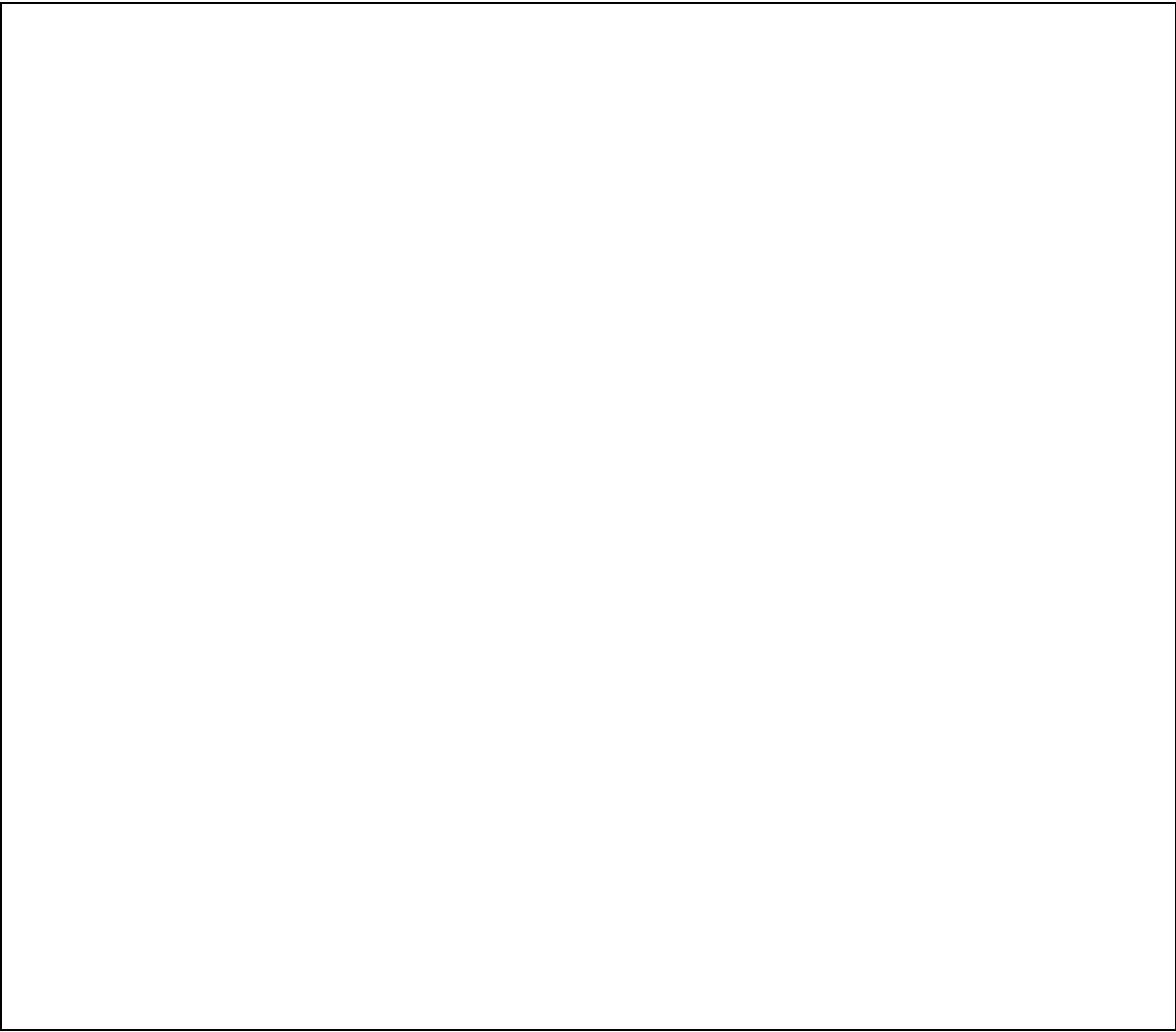
ECHINODERMS
10. Sea Cucumber
11. Urchin

CRUSTACEANS
12. Dungeness Crab
13. King Crab

ALGAE
14. Sea Weed

S'ook
Barnacle

Sea Week Word Search

Find the hidden words.

```
S  R  E  B  M  U  C  U  C  A  E  S  F  G  U
U  F  I  V  A  Z  F  A  C  Z  H  L  L  Q  V
P  U  D  B  R  S  G  V  P  H  N  F  U  N  Y
O  H  M  H  R  K  O  P  T  E  H  L  Y  U  C
T  J  A  M  B  W  M  O  U  Z  W  E  H  A  X
C  L  L  D  B  A  O  S  Z  N  J  S  T  S  C
O  H  C  T  T  B  R  H  B  U  I  S  Y  U  U
Q  S  K  E  M  I  B  C  U  C  E  U  F  U  B
R  T  N  U  L  O  E  B  T  R  V  M  T  E  P
N  H  G  D  D  K  A  P  G  I  C  K  L  D  V
R  J  F  A  I  B  C  B  R  Q  M  H  J  I  J
W  H  E  L  K  Z  H  O  P  N  G  R  I  T  X
Z  L  I  M  P  E  T  J  C  A  U  W  E  N  F
T  U  S  E  A  S  T  A  R  G  O  C  L  H  U
F  K  J  H  A  N  E  G  O  L  L  F  I  I  G
```

☐ Beach   ☐ Limpet   ☐ Tide

☐ Clam   ☐ Mussel   ☐ Urchin

☐ Cockle   ☐ Octopus   ☐ Whelk

☐ Gumboot   ☐ Sea
                   cucumber

☐ Hermit crab
                 ☐ Sea star

S'áx
Sea Star
Echinoderm

S'áx
Sea Stars

Echinoderm

Cut and paste words in the correct boxes.

Sea stars can be

[   ] .

Some of them eat

[   ] .
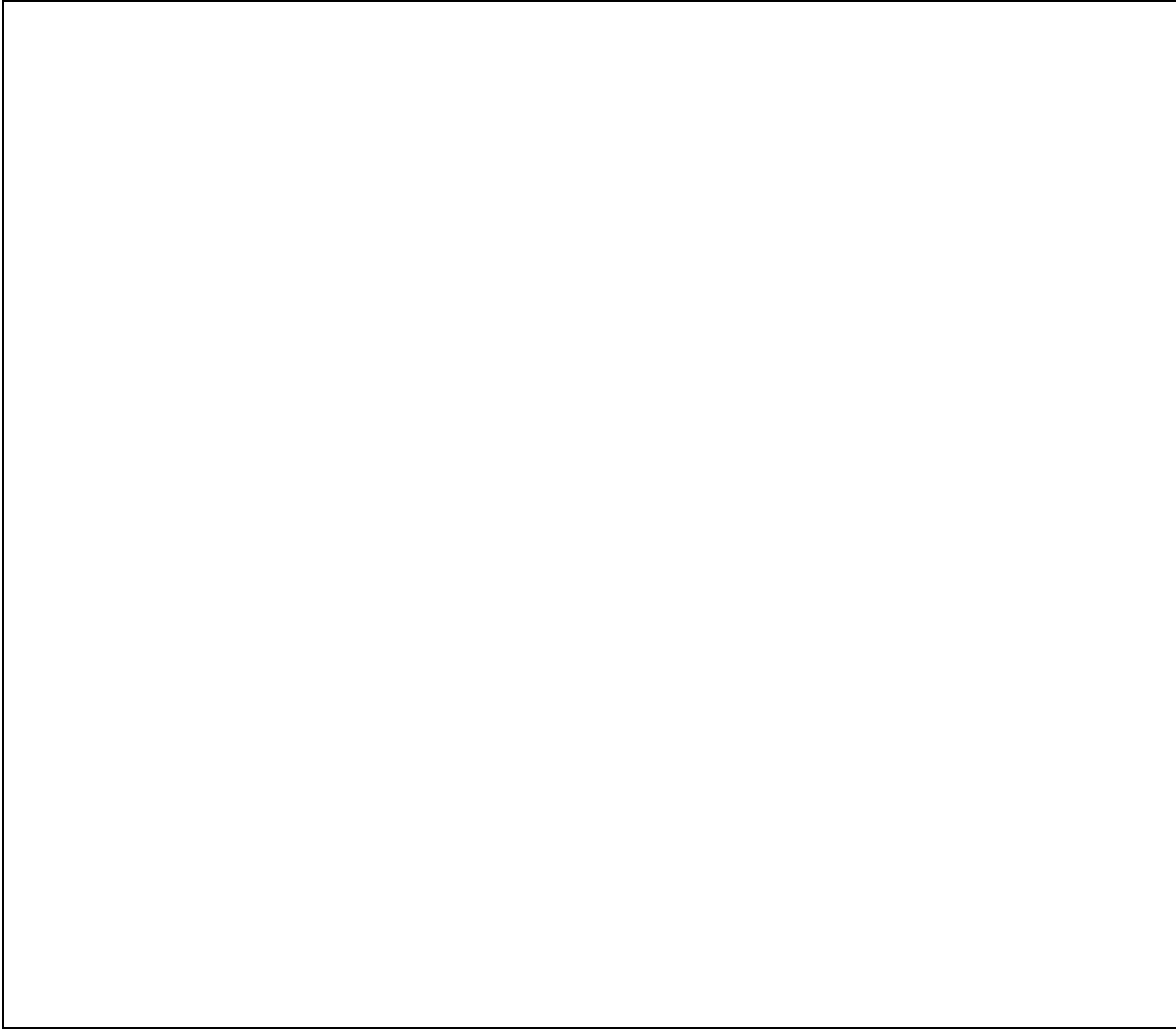
Sea stars use [   ] to move.

Sea stars live at the

[   ] .

beach | big | clams | tube feet

Nées'
Sea Urchin

Nées' Sea Urchins

Echinoderm

Circle the correct work and write it on the line.

Sea urchins are _____

animals   plants

Sea urchins have _____

spots   spines

Sea urchins have _____
feet.

tall   tube

Sea urchins live _____ the sea floor.

on   in

Tayataayí
Sea Anemone
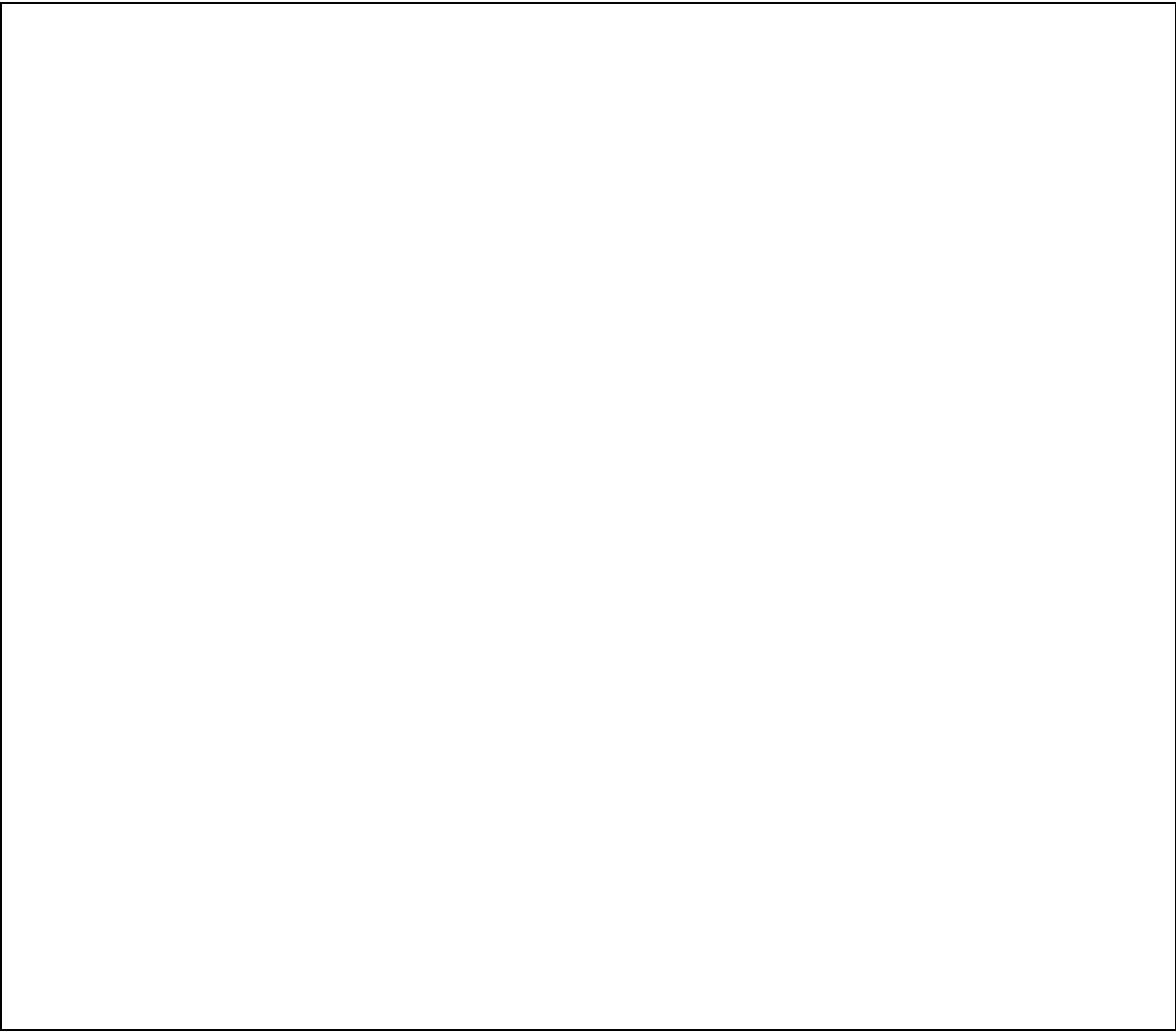
Tayataayí
Sea Anemone

Cnidaria

1. Draw a line to the **column**.

2. Draw a line to the **mouth**.

3. Draw a line to the **tentacles**.

Gáal', Yalooleit, Yaak ka Xwéinaa
Clams, cockles, mussels and scallops
Bivalves

Gáal', Yalooleit, Yaak ka Xwéinaa
Clams, cockles, mussels and scallops

Clams, cockles, mussels and scallops are bivalves. They have two parts to their shells.

Circle all of the bivalves.

Let's Count Mollusks

Draw a line to the correct number of mollusks

5

2

1

4

3

Yéil ts'áaxu, Shaaw ḵa Ts'ésx'w
Limpets, Chitons, and Snails

Word Unscramble

Unscramble the words. Write them in the space provided.

T	D	I	E	O	O	L	P

P	E	T	M	I	L
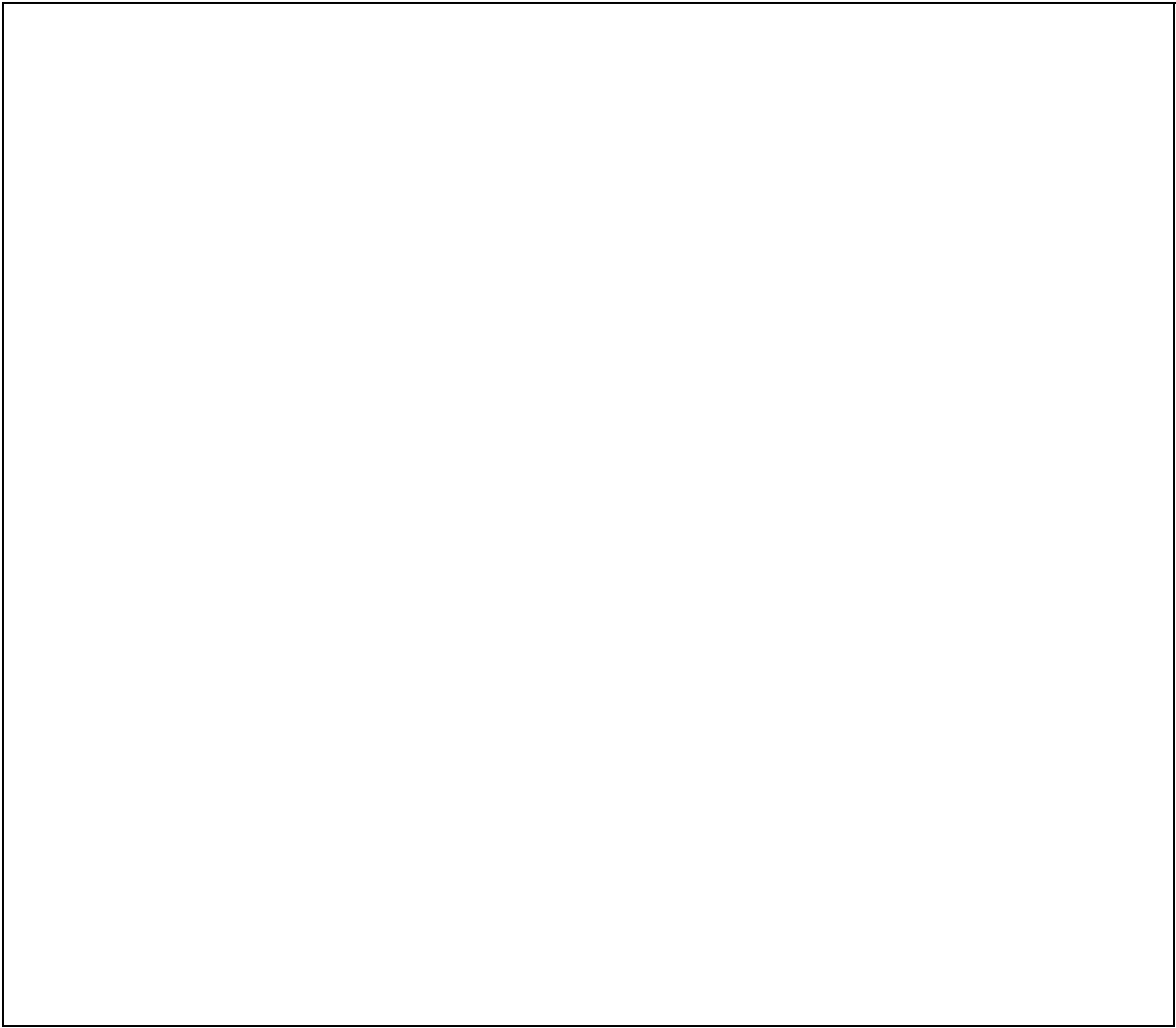
M	G	U	T	O	O	B

Náa_kw
Octopus
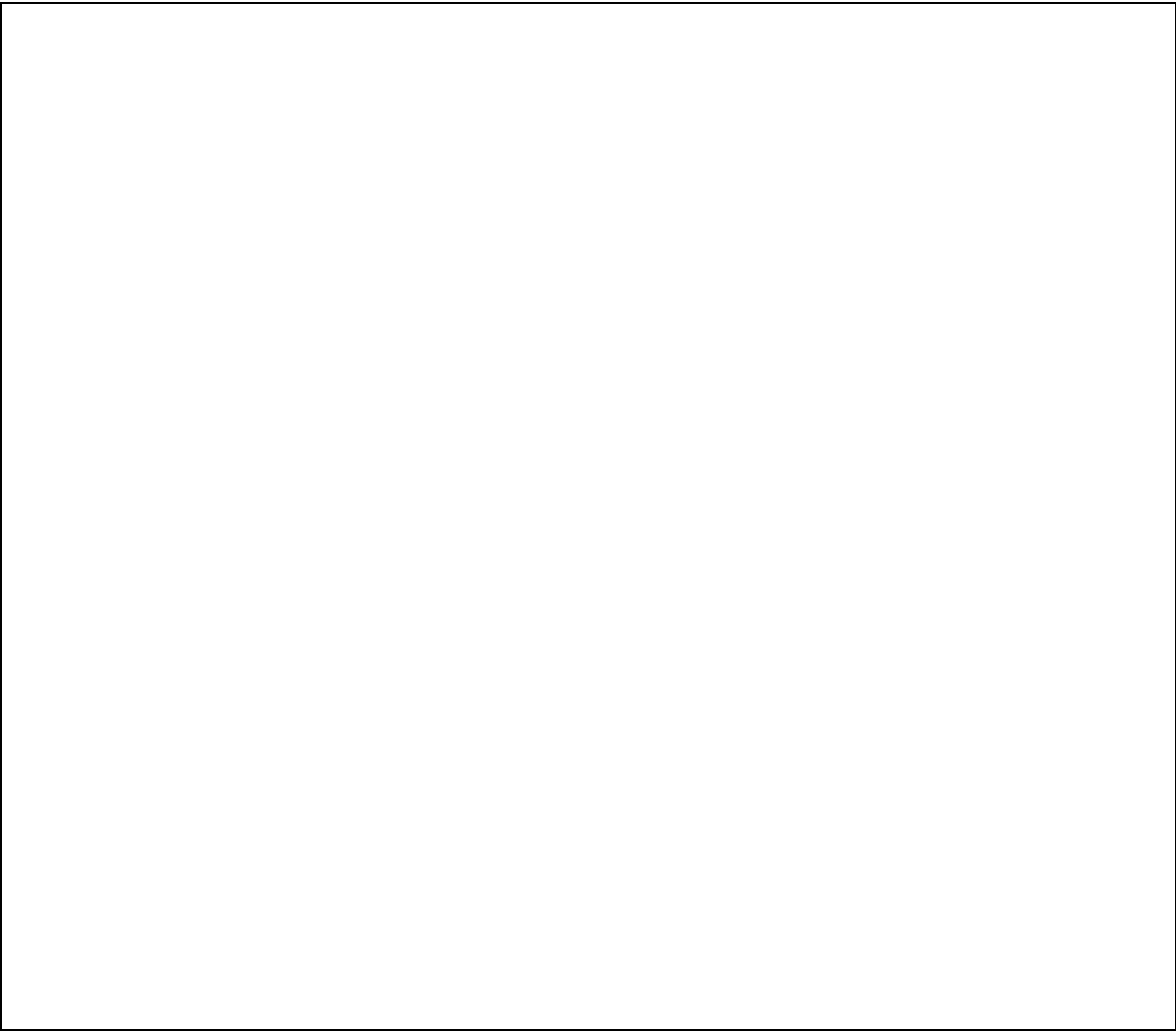
Noow S'áawk'w
Hermit Crab

A Walk on the Beach
and
What Do You See?

Name _____
Ax saayí

Date _____
Yáa yagiyee   *Juneau School District – It's a Keeper Book Series*

I see a red hermit crab looking at me.
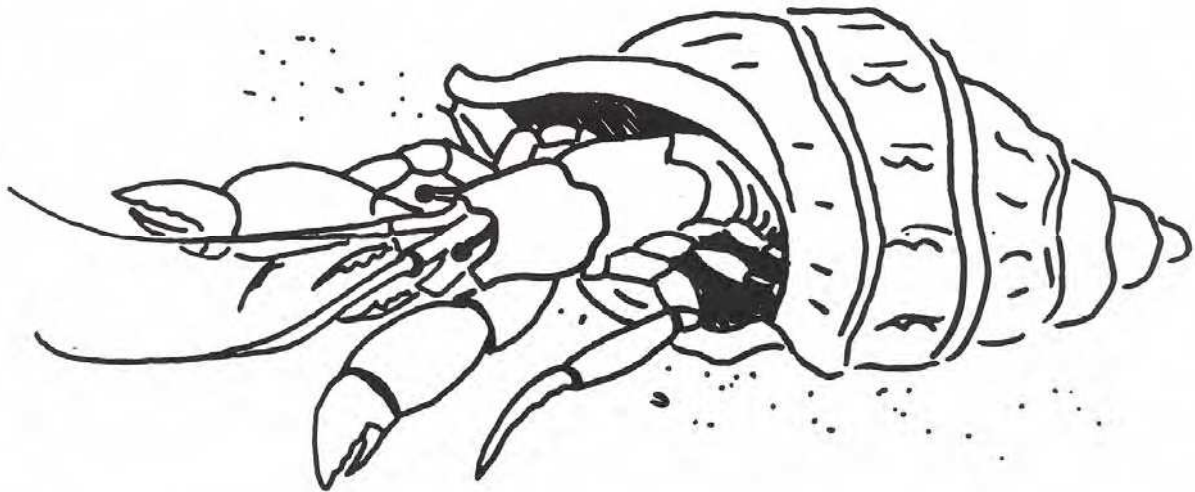
Red hermit crab,
Red hermit crab,
What do you see?

I see a blue mussel looking at me.
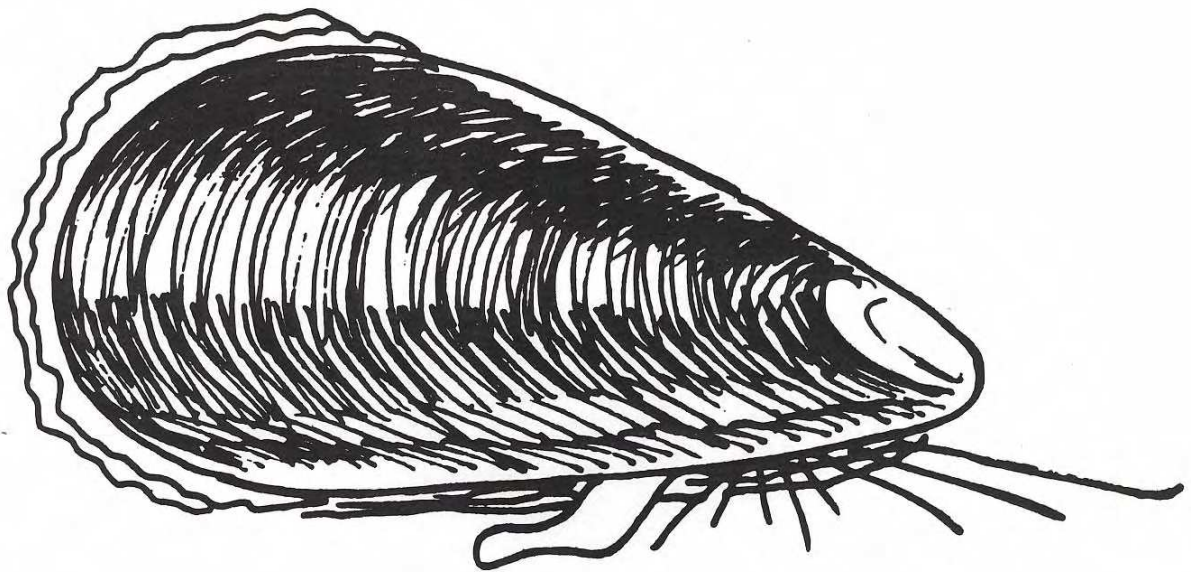
Blue mussel,
Blue mussel,
What do you see?

I see a white barnacle looking at me.
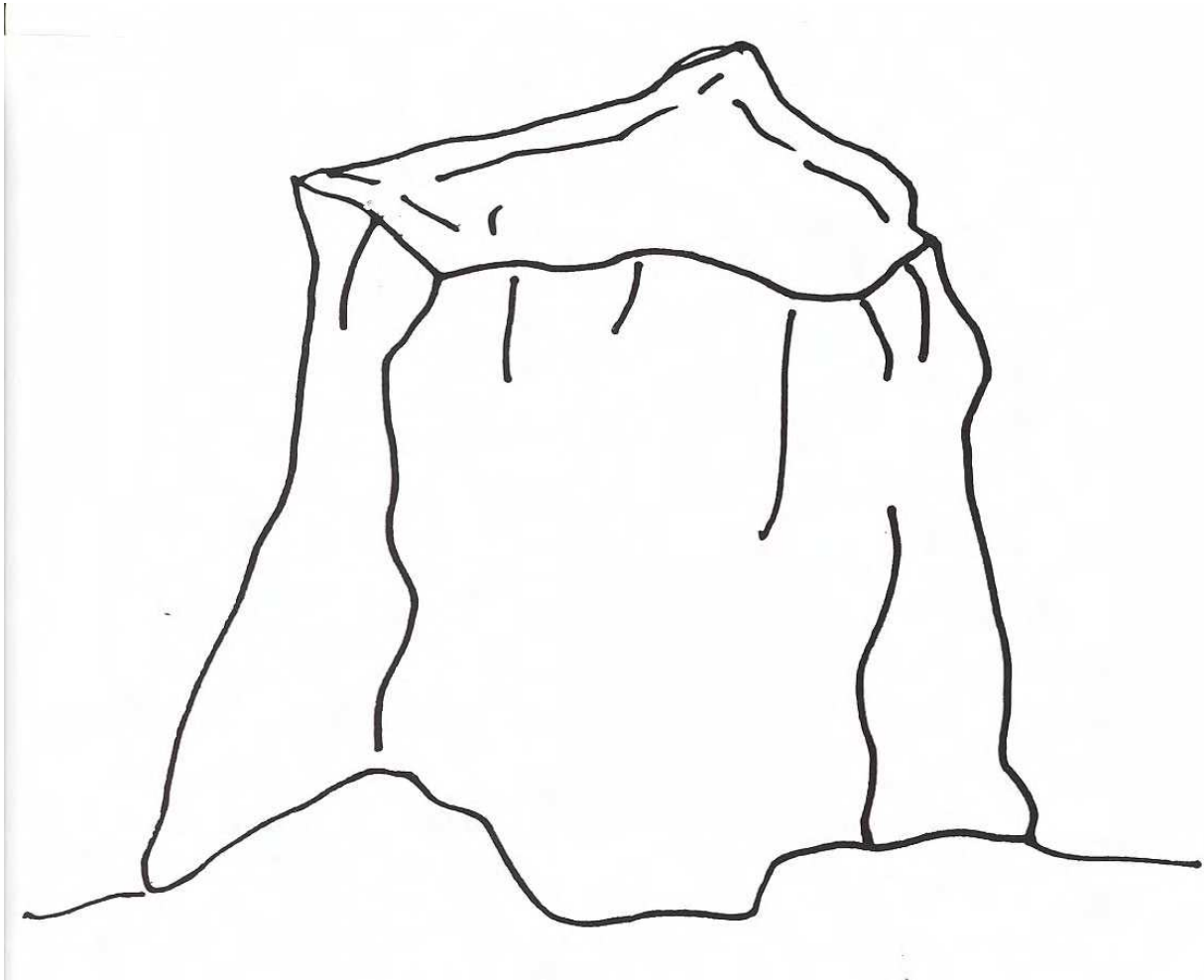
White barnacle,
White barnacle,
What do you see?

I see a pink shell looking at me.
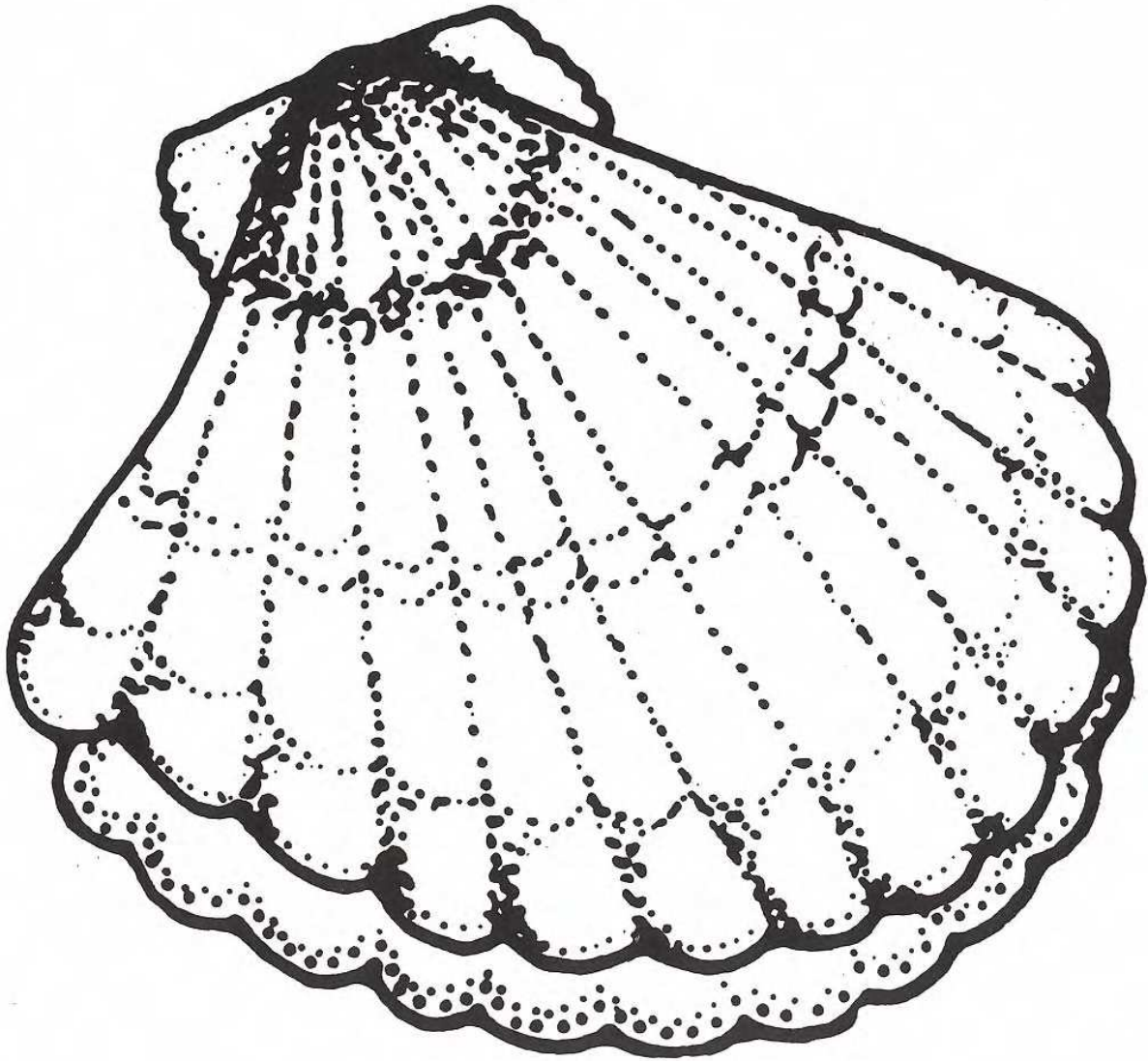
Pink shell,
Pink shell,
What do you see?

I see a gray rock looking at me.
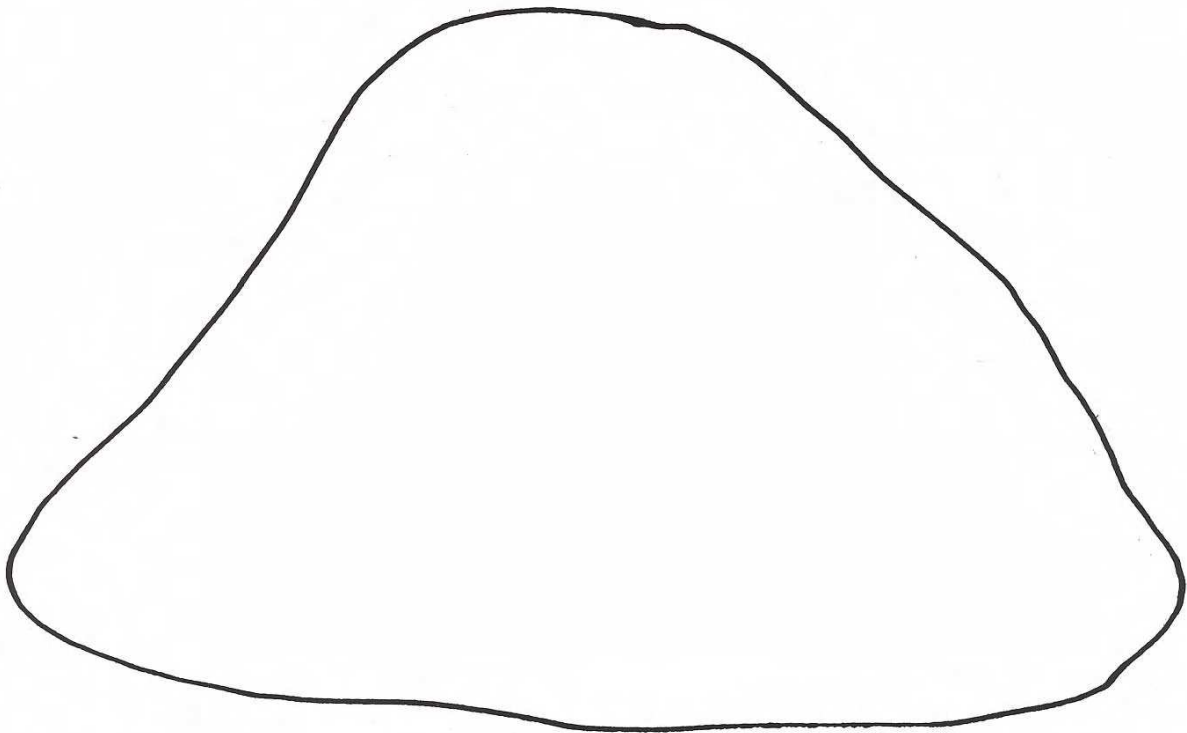
Gray rock,
Gray rock,
What do you see?

I see a black limpet sitting on me.
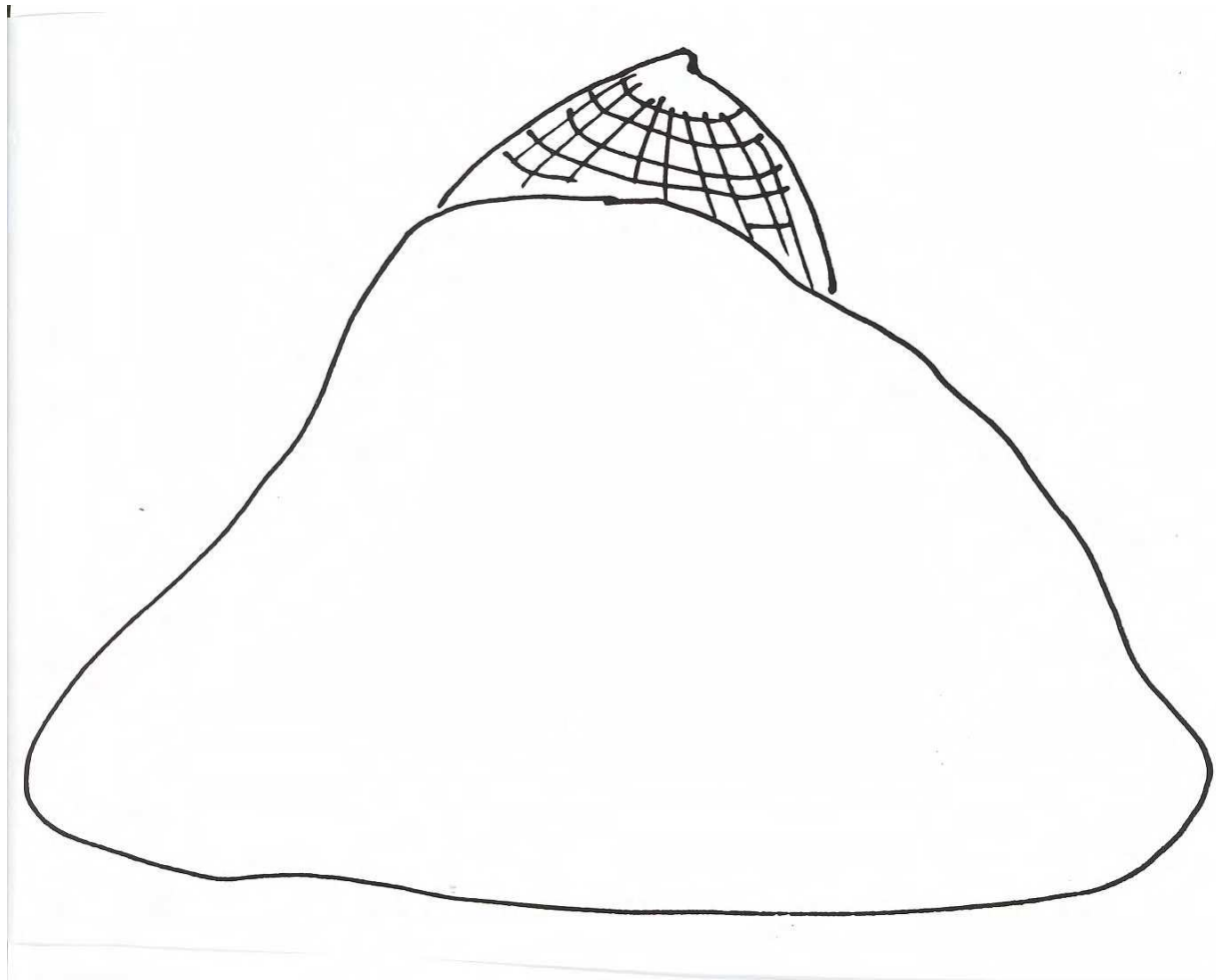
Éek - Beach Unit
Tlingit Components

Lesson 1
Vocabulary

1.	beach	éek
2.	story	tlaagú
3.	characters	sh kalnéek lingítx'i
4.	tide	kées'
5.	old woman	shawatshaan
6.	raven	yéil
7.	shark	tóos'
8.	eagle	ch'áak'
9.	sea urchin	nées'
10.	stick	káas'
11.	knife	lítaa
12.	rock	té
13.	beginning	shux'waanáx
14.	middle	a dagiygé
15.	end	a shú

Phrases

16.	Listen to a story.	Wé tlaagúde kinayis.aax.
17.	Thank you for the story.	Gunalchéesh tlaagú yís.
18.	Draw a (raven).	(Yéil) yahaayí kayshaxít.
19.	Put them in order.	Wooch yáx yakoojél.
20.	Cut out an (eagle).	(Ch'áak') yahaayí adax kei xaash.
21.	Glue the (shark) to the stick.	Káas' kat kalas'íx'w wé (tóos') yahaayí.
22.	Retell the story.	Tsú sh kanalneek wé tlaagú.
23.	What happened first?	Waa sá yan kawdiyáa shux'waanáx?
24.	What happened in the middle?	Waa sá yan kawdiyáa a dagiygéx'?
25.	What happened next?	Waa sá yan kawdiyáa a eet aa?
26.	What happened at the end?	Waa sá yan kawdiyáa a shú?
27.	The tide comes in.	Kées' daak oodaaych.
28.	The tide goes out.	Kées' yan oowalaa.

Lesson 2
Vocabulary

29.	beach	éek
30.	tide	kées'
31.	wave	téet
32.	sand	l'éiw
33.	rock	té
34.	plants	ka.éix át
35.	tide marks	laka
36.	tide pool	léin héeni

37.	beach creature	*ée̱k.ádi*
38.	beach zone	*léin wooch t'a̱ga̱kóot*
39.	splash zone	*teet x'atú*
40.	upper inter-tidal zone	*léin tlein*
41.	mid inter-tidal zone	*héen kwéiyi*
42.	lower inter-tidal zone	*léin wán*
43.	snail	*ts'íx'w*
44.	barnacle	*s'ook*
45.	hermit crab	*noow s'áawk'w*
46.	sea anemone	*tayataayí*
47.	sea urchin	*nées'*
48.	sea star	*s'áx*
49.	gumboot/chiton	*shaaw*
50.	cockle	*yalooleit*
51.	limpet	*yéil ts'áaxu*
52.	mussel	*yaak*
53.	clam	*gaal'*
54.	sculpin	*wéix̱'*

Phrases

55.	What's on the beach?	*Daa sá awú ee̱k?*
56.	What lives on the beach?	*Daa sá ée̱k aa yei teex'?*
57.	Listen for beach creature names.	*Ée̱k.ádi du sáayi ga̱a ku̱nayis.aax̱.*
58.	What did you hear?	*Daa sá iya.ax̱ch?*
59.	Which beach zone is this?	*Daakw sá léin wooch t'a̱ga̱kóot áyá?*
60.	What lives in a (tide pool)?	*Daa sá (léin héeni) aa yei teex'?*
61.	Where do (sea urchins) live?	*(Nées') goox' sáwé aa yei teex'?*
62.	(Sea Urchins) live here.	*Yáat'aa yei teex' (nées').*
63.	Touch it.	*At shí.*
64.	Look at it.	*At eelgéin.*
65.	Match them/Look for a match.	*A x̱ooní ga̱a ku̱yshee.*
66.	Put it in the right place.	*Ḵúná̱x̱ áyá akx yei nay.oo.*
67.	Put it on (the splash zone).	*(Téet x'atú) a kaa yan tí.*

Lesson 3
Vocabulary

68.	splash zone	*téet x'atú*
69.	barnacle	*s'ook*
70.	snail (periwinkle)	*ts'ix'w*
71.	tide	*ḵées'*
72.	rock	*té*
73.	gray	*lawúx̱ yáx̱ yatee*
74.	brown	*s'agwáat yáx̱ yatee*
75.	black	*t'ooch' yáx̱ yatee*

Phrases

76.	What lives in the splash zone?	*Daa sa (téet x'atú) aa yei teex'?*

77.	Snails live in the splash zone.	*(Ts'íx'w) teet x'atú aa yei teex'.*
78.	Watch for (snails).	*(ts'íx'w) ǥaa ḵunaytées'.*
79.	What did you see?	*Daa sá ysiteen?*
80.	I saw (snails).	*(ts'íx'w) x̱wasiteen.*
81.	Tear the edge off the paper.	*X'úx' a shutú ax' nays'éil'.*
82.	Glue the tide on the paper.	*X'úx' kat kalas'íx'w wé ḵées' yahaayí.*
83.	Tear out rock shapes.	*Té yahaayí adáx̱ nays'éil'.*
84.	Glue the rock onto the splash zone.	*Teet x'atút kalas'íx'w wé té yahaayí.*
85.	Glue snails to the rock.	*Té yahaayí kat kalas'íx'w wé ts'íx'w.*
86.	Is it in the right place?	*Áyá aakx ákwé?*
87.	Match them/Look for a match.	*A x̱ooní ǥaa ḵuyshee.*

Lesson 4

Vocabulary

88.	upper inter-tidal zone	*léin tlein*
89.	barnacle	*s'ook*
90.	hermit crab	*noow s'áawk'w*
91.	snail	*ts'íx̱'w*
92.	limpet	*yéil ts'áaxu*
93.	white	*dleit yáx̱ yatee*
94.	black	*t'ooch' yáx̱ yatee*
95.	game cards	*alḵáa x'úx'u*

Phrases

96.	What lives in the upper inter-tidal zone?	*Daa sá léin tlein aa yei teex'?*
97.	Barnacles live in the upper inter-tidal zone.	*(S'ook) léin tlein aa yei teex'.*
98.	I see (barnacles).	*(S'ook) x̱aateen.*
99.	I see a beach creature that lives in a white shell.	*Dleit yáx̱ noox' atoo yéi yateeyí eeḵ.ádi x̱aateen.*
100.	I see a creature that looks like a hat.	*S'aaxw yáx̱ yateeyí eeḵ.ádi x̱aateen.*
101.	I see a beach creature that ravens like to eat.	*Yéil du x'éi yak'eiyi eeḵ.ádi x̱aateen.*
102.	I see a beach creature that lives in a brown shell.	*S'agwaat yáx̱ noox' atoo yéi yateeyí eeḵ.ádi x̱aateen.*
103.	Stand up if you have a (barnacle).	*Gidaan (s'ook) i jeeyéiteeyí.*
104.	Turn around if you have a (barnacle).	*Yoo ayax̱ hán (s'ook) i jeeyéiteeyí.*
105.	Trade cards	*Woosh daséix'un wool.át wé alḵáa x'úx'u.*
106.	Let's play a game.	*Alḵáa ash kanax̱tool yát.*
107.	Go fish.	*Astéix̱ nagú.*
108.	Do you have a (barnacle)?	*(S'ook) gé i jeewú?*
109.	I have a pair.	*Woosh yáayi ax̱ jeewú.*
110.	Concentration	*A kat isanatí*
111.	I remember.	*A kat x̱at sayatí.*
112.	Do you remember?	*A kat agé i sayatí?*
113.	I forgot.	*A kat ax̱ seiwax'aaḵw.*

114.	Turn the card over.	*Yoo ayáx̱ tí wé alḵáa x'úx'u.*
115.	It's a match.	*A xooní áwé.*
116.	Let's make a book.	*X'úx' yei nax̱tusanéi.*
117.	Cut along the lines.	*A kaax' yaa nalxaash.*
118.	Sort the pages into the right order.	*X'úx' ayáx̱ yaa koojél.*
119.	Fold the pages in half.	*X'úx' a shuwú aax' kaylak'wat.*
120.	Staple the pages together.	*Wooshx̱ kadultáax' wé x'úx'.*
121.	Read your book.	*Yee x'úx'u naytoow.*

Lesson 5

Vocabulary

122.	upper inter-tidal zone	*léin tlein*
123.	hermit crab	*noow s'áawk'w*
124.	barnacle	*s'ook*
125.	snail	*ts'ix'w*
126.	limpet	*yéil ts'áaxu*
127.	abalone	*gúnx̱aa*
128.	mussel	*yaak*
129.	sand	*l'éiw*
130.	buttons	*yooka.óot'*
131.	regalia	*at.óow*
132.	red	*x̱'áan yáx̱ yatee*
133.	blue	*x̱'éishx'w yáx̱ yatee*
134.	shell	*noox̱'*
135.	univalve	*tléix' nóox̱'*
136.	bivalve	*deix̱ nóox̱'*
137.	spiral	*toolch'án oowayaa*
138.	one	*tléix'*
139.	two	*déix̱*
140.	operculum	*taax̱x̱'i*

Phrases

141.	What lives in the upper inter-tidal zone?	*Daa sá léin tlein aa yei teex'?*
142.	(Hermit crabs) live in the upper inter-tidal zone.	*(Noow sáawk'w) léin tlein aa yei teex'.*
143.	Pick up the (hermit crab).	*Aax̱ gatí wé (noow s'áawk'w).*
144.	Pass the (shell) to him/her.	*Du jeet tí wé (noox̱').*
145.	Are they the same?	*Ch'oo shóogu yáx̱ gé yatee?*
146.	Are they different?	*Woosh g̱uwanyaade yáx̱ gé yatee?*
147.	Sort the shells.	*Yaa yeeyg̱ích wé nóox̱'.*
148.	A big one.	*A tlein aa.*
149.	A small one.	*A k'watsk'u aa.*
150.	The hermit crab needs a home.	*Néil eeteenáx̱ yatee wé (noow s'aawk'w).*
151.	Draw a shell.	*Noox̱' yaháayi kayshax̱ít.*
152.	Cut out the hermit crab.	*Kei xaash wé noow s'áawk'w.*

153. Put the hermit crab on the beach mural. *Éek x'éen kat kaylas'íx'w wé (noow s'áawk'w).*
154. A (snail) has one shell.   *(Ts'ix'w) tléix' nóox' a daawú.*
155. A (clam) has two shells.   *(Gáal') déix nóox' a daawú.*
156. A hermit crab borrows a shell.   *Noow s'áawk'w noox' awahées'.*
157. Abalone buttons are shiny.   *Kadli.ítch' wé gúnxaa yooka.óot'.*
158. We decorate regalia with abalone buttons.   *Haa at.óowu kaa yei too.ooxx' wé gúnxaa yooka.óot'.*

Lesson 6
Vocabulary

159.	mid inter-tidal zone	*héen kwéiyi*
160.	sea anemone	*tayataayí*
161.	mussel	*yaak*
162.	limpet	*yéil ts'áaxu*
163.	tide pool	*léin héeni*
164.	sea urchin	*nées'*
165.	sea cucumber	*yéin*
166.	hermit crab	*noow s'áawk'w*
167.	rock	*té*
168.	tentacles	*tl'eegí*
169.	body/trunk	*daa*
170.	mouth	*x'éi*
171.	green	*s'óow yáx yatee*
172.	red	*x'áan yáx yatee*
173.	purple	*kanat'á kahéeni yáx yatee*

Phrases

174. What animal lives in the mid inter-tidal zone? *Daa sá héen kwéiyi aa yei teex'?*
175. (Sea anemones) live in the mid inter-tidal zone. *(Tayataayí) héen kwéiyi aa yei teex'.*
176. Sea anemone tentacles sting.   *Tayataayí tl'eegí kaasixák.*
177. Sea anemones have no shell.   *Tayataayí tléil nóox' a daa.*
178. Let's make a sea anemone.   *Tayataayí yáx yei naxtusanéi.*
179. Cut it in half.   *A shoowú kei xaash.*
180. Stuff it with paper.   *A too yei na.oo wé x'úx'.*
181. Glue paper around it.   *A daat kalas'íx'w wé x'úx'.*
182. Insert the tentacles.   *wé tl'eegí atoodéi latsoo.*
183. Cut out a rock.   *Kei xaash wé té.*
184. Glue the anemone to the rock.   *Té kat kalas'íx'w wé tayataayí.*
185. What part of the anemone is this?   *Daakw aa tayataayí daa.ádi sáyá?*
186. Put your anemone on the beach mural.   *Éek x'éen kat kaylas'íx'w i tayataayí.*

Lesson 7
Vocabulary

187.	mid inter-tidal zone	*héen kwéiyi*
188.	sea urchin	*nées'*
189.	spines	*nées' k'áts'i*
190.	mussel	*yaak*
191.	limpet	*yéil ts'áaxu*
192.	tide pool	*léin héeni*
193.	sea anemone	*tayataayí*
194.	sea cucumber	*yéin*
195.	hermit crab	*noow s'aawk'w*
196.	rock	*té*
197.	shell	*noox'*
198.	pair	*woosh yáayi*
199.	five sided	*keijín yatee yeix' daawdudzihát*
200.	red	*x'áan yáxyatee*
201.	green	*s'oow yáx yatee*
202.	purple	*kanat'á kahéeni yáx yatee*

Phrases

203.	What lives in the mid inter-tidal zone?	*Daa sá héen kwéiyi aa yei teex'?*
204.	(Sea urchins) live in the mid inter-tidal zone.	*Héen kwéiyi aa yei teex' (nées').*
205.	Where do sea urchins live?	*Goox' sáwé yei teex' nées'?*
206.	A sea urchin has an outer shell.	*Nées' adaa nóox'u du daawú.*
207.	Let's make a sea urchin.	*Nées' yax yei naxtusanéi.*
208.	Paint the sea urchin.	*A daa naynéegwal' wé nées'.*
209.	What color did you paint it?	*Wáa sá iwnéegwal'?*
210.	I painted it red.	*X'aan yáx yatee a xwanéegwal'.*
211.	Insert the urchin's spines.	*Nées' k'áts'i atoodéi isigóo.*
212.	Be careful!	*Jinkwat' sheeltín!*
213.	Sea urchin spines are sharp!	*Nées' k'áts'i lik'áts' áwé!*
214.	Let's put the sea urchin on the beach mural.	*Éek x'éen kát katoolas'íx'w wé nées'.*

Lesson 8

Vocabulary

215.	low inter-tidal zone	*léin wán*
216.	sea star	*s'áx*
217.	sea urchin	*nées'*
218.	sea cucumber	*yéin*
219.	limpet	*yéil ts'áaxu*
220.	gumboots	*shaaw*
221.	clam	*gáal'*
222.	cockle	*yalooleit*
223.	five	*keijín*
224.	its arm	*a jíni*
225.	eye	*waak*

226.	sand	*l'éiw*
227.	pattern	*a kaax*
228.	purple	*kanat'á kahéeni yáx yatee*
229.	green	*s'oow yáx yatee*
230.	orange	*shéix'w yáx yatee*
231.	skin	*dook*
232.	sand paper	*x'úx' x'éidaa*

Phrases

233.	What lives in the low inter-tidal zone?	*Daa sáléin wán aa yei teex'?*
234.	(Sea stars) live in the low inter-tidal zone.	*(S'áx) léin wán aa yei teex'.*
235.	Sea stars have five arms.	*Keijín a jíni s'áx has du jeewú.*
236.	Sea stars arms grow back!	*S'áx jíni kuxdéi kei kana.éin!*
237.	Sea stars skin feels like sand paper.	*X'úx' x'éidaa yáx s'áx doogú jee kdinook.*
238.	Touch the sea star's skin.	*Wé s'áx dookt shí.*
239.	What do you feel?	*Daa sá jee idinook?*
240.	It feels rough.	*Kasix'áx'w yáx jee kdinook.*
241.	Let's make a sea star.	*S'áx yáx yei naxtusanéi.*
242.	Trace the sea star pattern.	*S'áx kaax adaa kayshaxít.*
243.	Cut out the sea star.	*Kei xaash wé s'áx yahaayí.*
244.	Glue sand on the sea star's arms.	*S'áx jíni kax' kaylas'íx'w wé l'éiw.*
245.	Let's put your sea star on the beach mural.	*Éex x'éen kat katoolas'íx'w i s'áxu.*
246.	Let's play a game.	*Alkáa ash kanaxtool yát.*
247.	Mark the center one.	*Kayshaxít a dagiygé aa.*
248.	Mark the one I say.	*Kayshaxít xwasaayí aa.*
249.	Five in a row.	*keijín yáx kasixat.*
250.	I win!	*Yaxwadlaak!*

Lesson 9

Vocabulary

251.	low inter-tidal zone	*léin wán*
252.	sea star	*s'áx*
253.	sea urchin	*nées'*
254.	sea cucumber	*yéin*
255.	limpet	*yéil ts'áaxu*
256.	gumboot/chiton	*shaaw*
257.	clam	*gáal'*
258.	cockles	*yalooleit*
259.	respect	*at yaa awunéi*
260.	eight	*nas'gadooshú*
261.	shell	*nóox'*
262.	knife	*lítaa*
263.	cook	*kasa.ee*
264.	eat	*at xá*

265.	black	*t'ooch' yáx yatee*
266.	red	*x'áan yáx yatee*
267.	brown	*s'ágwaat yáx yatee*
268.	spots	*kadlich'áchx*
269.	stripes	*daak dligaas'*

Phrases

270.	What lives in the low inter-tidal zone?	*Daa sa léin wán aa yei teex'?*
271.	(Gumboots) live in the low inter-tidal zone.	*(Shaaw) léin wán aa yei teex'.*
272.	Gumboots have 8 inner shells.	*Nas'gadooshú yatee a tunoox'u wé shaaw.*
273.	Count the shells.	*Nóox' naytoow.*
274.	Wash the sand off the gumboots.	*Shaawdáx na.óos' wé l'éiw.*
275.	Let's cook gumboots.	*Shaaw gatoosa.ee.*
276.	Let's remove the shells.	*Kaxtoolnóox'ákw.*
277.	Let's eat gumboots.	*Shaaw gatooxaa.*
278.	Always be respectful.	*Ch'a tlákw at yaa ayageenéi.*

Lesson 10

Vocabulary

279.	beach creature	*éek.ádi*
280.	sea star	*s'áx*
281.	sea cucumber	*yéin*
282.	cockle	*yalooleit*
283.	hermit crab	*noow s'áawk'w*
284.	ribbon seaweed	*k'áach'*
285.	limpet	*yéil ts'áaxu*
286.	mussel	*yaak*
287.	sea urchin	*nées'*
288.	sea anemone	*tayataayí*
289.	barnacle	*s'ook*
290.	gumboot/chiton	*shaaw*
291.	snail (whelk)	*ts'ésx'w*
292.	clam	*gáal'*
293.	tidepool	*lein héeni*
294.	sculpin	*weix'*
295.	low tide	*yan uwaláa*
296.	high tide	*yankát uwadáa*
297.	book	*x'úx'*

Phrases

298.	We are going to the beach.	*Éekdei gaxtoo.áat.*
299.	We will be respectful.	*Kaa yáa kei ayagaxtoonéi.*
300.	Stay together.	*Wooshteen nay.á.*
301.	Look under rocks.	*Té a t'ayee ax' anayeelgéin.*
302.	Put the rocks back in place.	*A eetí kúxdei yan tí wé té.*
303.	Go look for (beach creatures).	*(Éak.átx'i) agaa kugaxtooshée.*

304.	Look at this!	*At eelgéin!*
305.	What did you find?	*Daa sá kax keeyashee?*
306.	What didn't you find?	*Daa sá tléil kax keeyashee?*
307.	I found (a sea star).	*(S'áx) kax kuxwaashee.*
308.	I didn't find (a sculpin).	*(Wéix') tlél kax kuxwaashee.*
309.	Gather together.	*Woosh kaanáx gaxtuda.aat.*
310.	Count (shells).	*(Nóox') naytoow.*
311.	The tide is coming in.	*Daak nadéin.*
312.	The tide is going out.	*Yei naléin.*