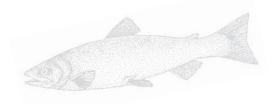


Have a partner trace the outline of your right hand, figures spread out and thumb toward the bottom of the page.

#### Alaska's Five Salmon

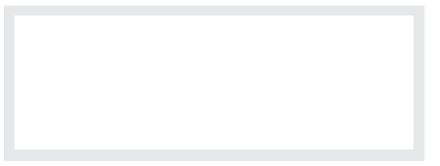


Genus: \_\_\_\_\_ means \_\_\_\_\_

#### **TECHNICAL DRAWING**

KING salmon = SILVER salmon = RED salmon =

#### **Five Species of Salmon**



PINK salmon =

CHUM salmon =

www.adfg.state.ak.us or <u>Alaska's Wild Salmon</u>, pp 11-12

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8° 521320-20000	Jesse .	

Where are you? \_\_\_\_\_\_, Alaska. Put a small X on that spot on the map. (city)

What major watershed do you live in? \_\_\_\_\_

\_\_\_\_\_\_. Please trace the major river

in your watershed in blue.

On the following page, please draw a picture of the watershed that your salmon originate. Be sure to include the source, major tributaries, major land features (mountains, lakes, etc.), and the mouth.



## Looking ahead at salmon studies

	What do you know	What would you like to
	about	know about
The salmon life cycle?		
Salmon needs and threats?		
The water cycle?		
Healthy salmon habitat?		
Salmon anatomy?		
Incubation?		



Date: \_\_\_\_\_

Location: \_\_\_\_\_

Time: \_\_\_\_\_

What is an "egg take?" Make a prediction.

Draw and describe:

#### Egg Take Scavenger Hunt

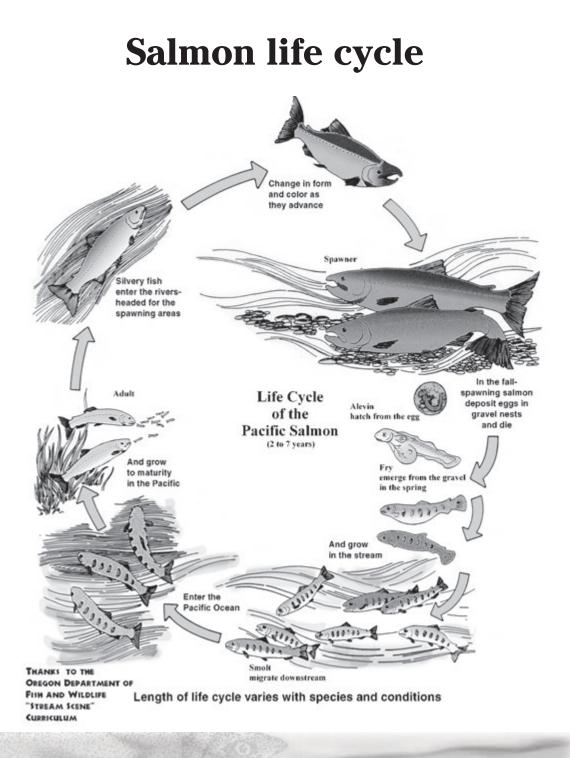
Date:	Date:	Date:
Where:	Where:	Where:
Time:	Time:	Time:
SALMON CARCASS	SOMETHING MANMADE	SALMON PREDATOR
Date:	Date:	Date:
Where:	Where:	Where:
Time:	Time:	Time:
SOMETHING that POLLUTES	SILVER SALMON	HABITAT DAMAGE
Date:	Date:	Date:
Where:	Where:	Where:
Time:	Time:	Time:
SCIENTIFIC TOOL	INDICATOR of WEATHER	SALMON REDD

## Habitat drawing and details

Describe your human habitat. What do you need for survival?

Describe your salmon habitat. What do they need for survival?

#### DRAW your salmon's watershed!

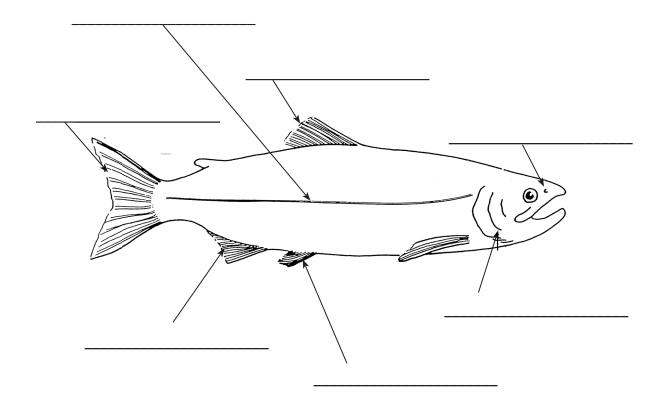


## Salmon life cycle

Life cycle stage	Needs		Threats			
	Habitat	Food	Predators	Other		
Egg						
Alevin						
Fry						
Smolt						
Adult Salmon						
Spawner						

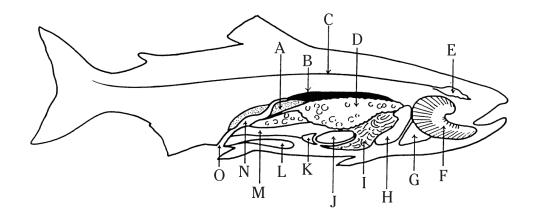
#### Salmon external anatomy

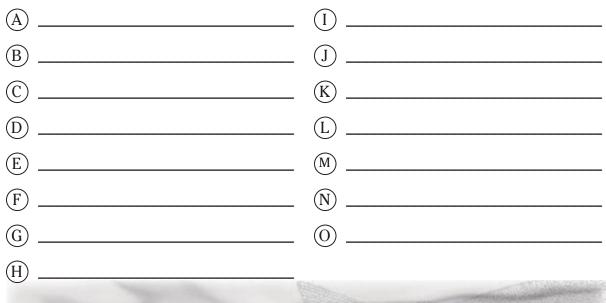
Label with name and function of each stucture.



#### Salmon internal anatomy

Label with name of structure

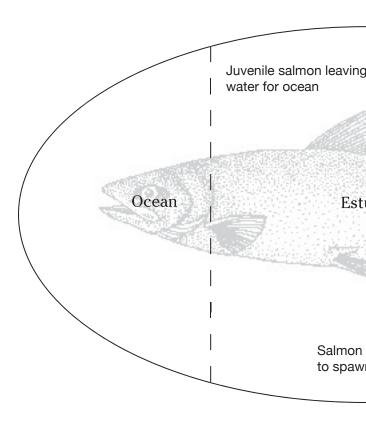




#### The Fo

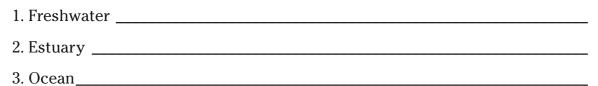
Draw in the plants and animals in the food web of one of the salmon's major habitats (ocean, estuary, freshwater). Be sure to show who eats whom.

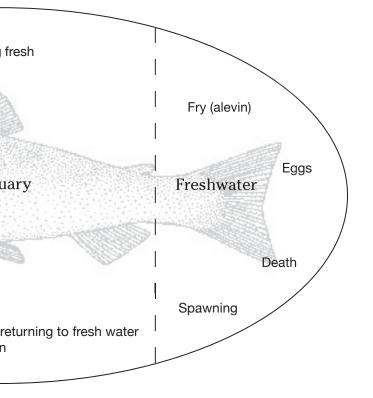
How would removing one organism in your habitat affect your food web?



## od Web

As human beings, how do we impact the food web (other than pollution)?





#### Salmon needs and threats

What stage is the most dangerous in a salmon's life? Support your answer with three facts that you've learned.

Most dangerous 1.\_\_\_\_\_ 2.\_\_\_\_\_ 3. LIST four predators 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. What is the most dangerous stage in a human's life? Support your answer with three facts. Most dangerous 1. \_\_\_\_\_ 2. 3.\_\_\_\_\_

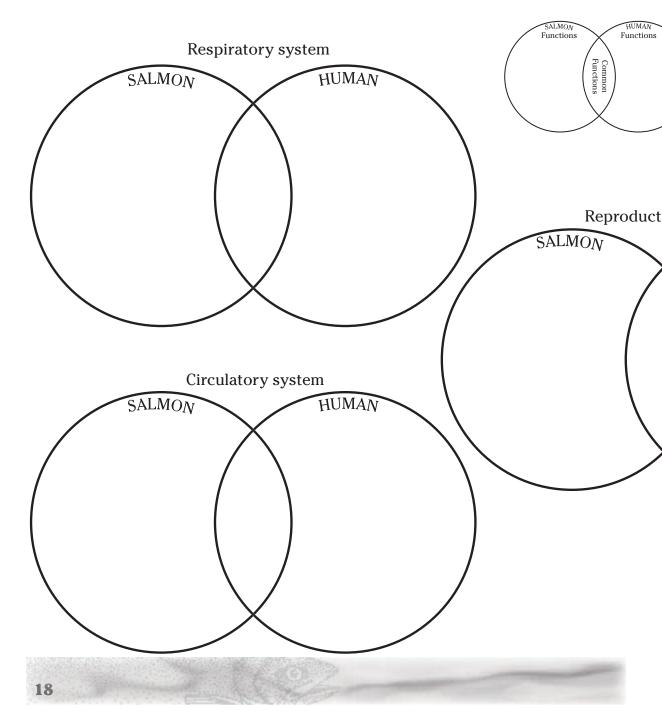
16



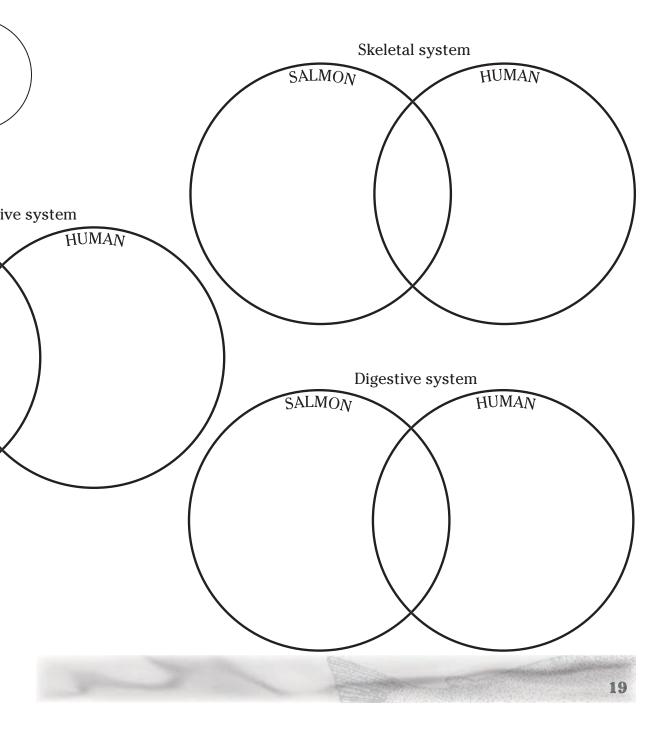
Choose two stages of the salmon life cycle.

Stage Gets ENERGY from	Uses ENERGY to
Stage Gets ENERGY from	Uses ENERGY to

#### **Compare & contrast organ**



#### function of salmon vs. human



# Egg survival

	Date	Total	Loss	Variable
Eggs				
Alevin				
Fry				

20

**Fishing Frenzy** 

...or...how do **you** catch salmon?

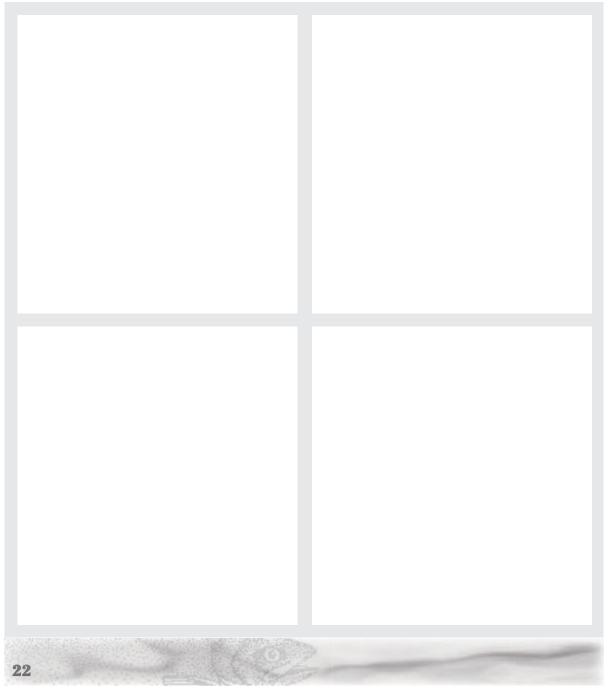
Where do you live?

Commercial or personal use?

Method of fishing?

What do you know about sustainable harvesting of a resource?

# **Fish Processing** How do **you** prepare/preserve salmon?



## **Salmon Match Game**

Write the word from the column on the left in front of the correct meaning.

Humpy	1.	A young salmon ready to go to sea.
Chum	2.	A round hole in a gravel bed where salmon eggs are laid.
Fry	3.	To lay and fertilize eggs.
Alevin	4.	Any fish that is hatched in fresh water but lives most of its life in salt water.
Spawn	5.	Very tiny plants and animals that live in the sea.
Chinook	6.	Salmon young that have used up their yolk sac.
Redd	7.	Newly hatched salmon with its yolk sac still attached to its body.
Sockeye	8.	A kind of circle of life. The chain of life from birth to death, to birth again.
Life cycle	9.	The symbol of male animals.
Q	10.	The symbol for female animals.
Plankton	11.	Another name for a smolt.
Fingerling	12.	Red salmon
Anadromous	13.	King salmon
Coho	14.	Dog salmon
Smolt	15.	Silver salmon
$\bigcirc$	16.	Pink salmon

16 right: Biologist 13-15 right: Better luck next time 10-12 right: Just getting started Under 10 right: Well, I like to eat fish!

#### 3-2-1 SPAWN



# **Only the strong survive**

(adapted from the Alaska State Museum's Salmon Kit)

Use the numbers below to find out how many salmon are left. Use this page for your work.

1.	A salmon deposited 5,000 eggs in a redd.	
2.	Five-hundred (500) eggs were not fertilized.	
3.	Sixty (60) were washed out of the gravel when a 3-wheeler crossed the stream.	
4.	Mud from building a new subdivision eroded into the stream and suffocated one-thousand (1,000).	
5.	Three-hundred (300) alevins died because they were very weak.	
6.	After the alevins developed into fry, five-hundred (500) were eaten by other fish in the stream.	
7.	Forty-one (41) were eaten by birds.	
8.	As they neared the ocean, 260 salmon were caught in a pool where they got too hot because of thermal pollution from a coal-fired power plant.	
9.	In the ocean 1,500 were eaten by bigger fish.	
10.	Seals ate 95.	
11.	Fishermen caught 556.	
12.	As the salmon returned to their spawning stream, bears ate 180 of them.	
13.	Three (3) were dashed against the rocks trying to jump a waterfall.	
14.	The rest of the salmon spawned.	
15.	HOW MANY SALMON WERE LEFT TO SPAWN?	
	See	WETT ALL AND AL

#### Your favorite salmon recipe



#### Word search

Can you find the 13 "salmon words" in the squre below? Some words may be diagonal or even backwards!

R	E	U	S	А	Μ	0	Ν	Р	V	Ι	Q	U	Y
М	0	Z	R	М	Ν	U	Y	L	В	D	D	E	R
Х	N	С	G	А	Р	А	Κ	S	0	С	Ι	М	F
S	0	С	Κ	E	Y	E	D	S	Р	А	U	N	Т
L	Μ	А	Ι	R	0	D	Ν	R	Ν	А	S	В	0
Ν	L	R	0	Т	Ι	G	Ν	Y	0	V	V	S	Т
Ι	А	Н	В	S	Р	А	W	N	Μ	М	Ι	G	Κ
V	S	Ι	С	L	D	E	М	E	U	Ν	0	Т	S
E	G	Н	S	С	Т	А	R	S	Н	0	Ν	U	Т
L	Ν	S	Ι	А	Р	E	Ν	U	С	Т	Р	А	S
А	Ι	G	R	N	0	В	В	L	E	0	Р	S	Ι
Q	Κ	G	U	Ν	S	V	E	S	Т	E	Н	R	D
S	Ι	E	S	Р	Ι	N	K	S	А	L	М	0	N
М	S	U	Н	С	Ν	Y	Н	R	0	С	N	0	Y
1. A	LEVI	N			6.	FRY					11. 5	SOCK	EYE

I. ALEVIN	6. FRY	II. SOCKEYE
2. ANADROMOUS	7. KING SALMON	12. SPAWN
3. CHUM	8. MIGRATE	13. STREAM
4. COHO	9. PINK SALMON	
5. EGGS	10. REDD	
		Last Williams

#### Things I've learned about salmon



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