Local Pacific Salmon Species

Subject

Science

Objectives

The students will (1) become familiar with the five pacific salmon species and (2) complete the *Pacific Salmon Species of*Unshington · Chart.

Materials

Students for Salmon Journal
Art Supplies

Size/Setting/Duration

Whole class/classroom/~1 hour

Background

After understanding the salmon lifecycle, students are ready to learn about the differences between five of the local pacific salmon species. Each species varies slightly due to different habitat requirements, spawning habitat needs, and the duration of time spent in fresh water and saltwater. Familiarity with the species will come from this study of the separate species. Note: there are many other species found locally that belong to the Salmonidae family. We focus on these five because they are the most prolific, commercially valuable, and easy for students to remember. Also included in this family but not covered here are Sea-run Cutthroat and Steelhead, anadromous salmonids that have the ability to spawn more than once.

Activity

1. Read the Salmon Facts handout that is in the Student Journal on page 14. This information sheet should aid your students in understanding some unique characteristics of salmon species. The stages of the salmon lifecycle should also be completed prior to this activity.

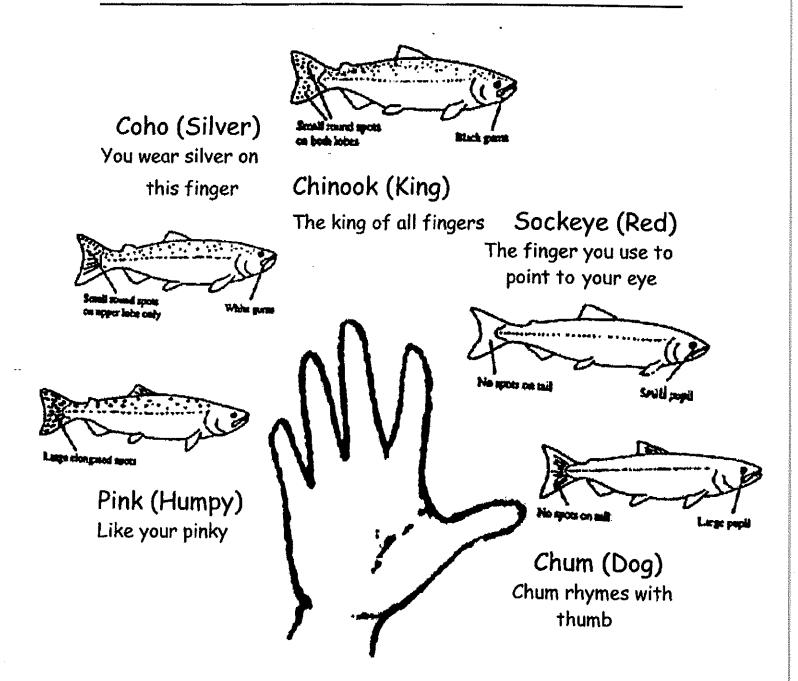
- 2. In the Student Journal on page 16 the five local pacific salmon are displayed with their varying physical traits and names. Discuss with your students these differences in coloring, spotting, and names (common and other).
- 3. On pages 17-23 are fact sheets for each of the five salmon we cover. The students will read each of the five fact sheets in order to fill out the Five Pacific Salmon Species of Washington Chart at the end of the activity. Read through the sheets with your students to ensure comprehension. The fact sheets are composed of the scientific name, weight, length, lifecycle, and habitat needs for each salmon species.
- 4. Once the salmon fact sheets have been read, have your students complete the Five Pacific Salmon Species of W. ashington Chart on page 24. This chart addresses the scientific and common name of each species, weight, length, and the habitat needed for spawning. All information for this chart is in the fact sheets.

EALR Information

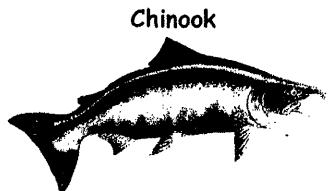
Local Pacific Salmon Species

Component	Benchmark	Assessment
1.1 Science Use properties to identify, describe, and categorize substances, materials, and objects	Sort, order, and classify objects by physical properties	Students will complete the Salmonid Species of Washington Chart on page 24
1.2 Science Identify, describe, and categorize living things based on their characteristics	Identify physical characteristics that are used to classify living organisms	Same as above
4.1 Science Use listening, observing, and reading skills to obtain scientific information	Read and comprehend developmentally-appropriate scientific information	Students will use fact sheets to fill out the chart on page 24

Pacific Salmon Species in Washington



An easy way to remember salmon names!



Also Known as: Scientific Name: Blackmouth, King, Spring, Tyee Onchorhynchus tshawytscha

Average Weight:

10-24 lbs (4.5-10.9 kg)

Length at Maturity:

36-58 inches (91.4-147.32 cm)

Primary Human Use:

Commercial Fishing and Sport Fishing

Chinook Lifecycle

Fall Chinook

Chinook salmon spawn October to November.

• Fall Chinook are mostly "ocean-type" salmonids; this means that they are very dependent on estuaries for rearing.

Spring Chinook

- · Chinook salmon migrate upstream April to July.
- They spawn early August to September.
- Spring Chinook are mostly "ocean-type" salmonids; however some of the stock is "stream-type". "Stream-type" salmonids rear for one year in freshwater and then out migrate the following spring to the ocean.

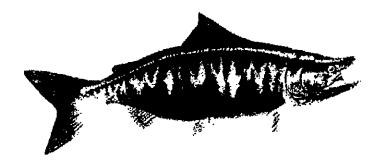
Habitat Needs:

Chinook are most often found in streams or rivers.

Spawning occurs in deep, fast water in fist-sized gravel.

The best rearing habitat for Chinook includes: sloughs, side channels, mainstem eddies and areas with woody cover.

Chum



Also Known as:

Dog, Calico, Keta

Scientific Name:

Onchorhynchus keta

Average Weight:

9-15 lbs, up to 40 lbs (4.1-6.8 kg, up to 18.1 kg)

Length at Maturity:

25-40 inches (63.5-101.6 cm)

Primary Human Use:

Commercial Fishing

Chum Lifecycle

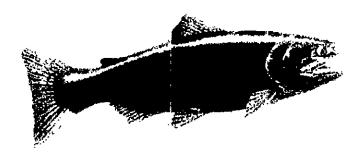
 Chum salmon rear in freshwater for a few aays to a month and thên migrate out to estuaries.

Habitat Needs:

While rearing in the freshwater, juvenile Chum salmon prefer habitats with aquatic plants. In estuaries they like sloughs, tidal marshes, and salt

grass.

Coho



Also Known as:

Silver

Scientific Name:

Onchorhynchus kisutch

Average Weight:

6-12 lbs, up to 31 lbs (2.7-5.4 kg, up to 14.1 kg)

Length at Maturity:

24-38 inches (61.0-96.5 cm)

Primary Human Use:

Commercial Fishing and Sport Fishing

Coho Lifecycle

 Coho salmon usually spend at least one year in the treshwater (occasionally two) and two years in the saltwater.

Habitat Needs: Coho salmon seek protection in beaver ponds, wetlands, and side channels along streams.

Pink



Also Known as:

Humpy, Humpback

Scientific Name:

Onchorhynchus gorbuscha

Average Weight:

2-5 lbs, up to 12 lbs (1.0-2.3 kg, up to 5.4 kg)

Length at Maturity:

20-30 inches (50.8-76.2 cm)

Primary Human Use:

Commercial Canning

Pink Lifecycle

Pink salmon spawn July to September.

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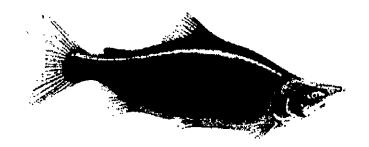
- Pink salmon immediately out migrate to estuaries.
- Pink salmon head out to the ocean after two months in the estuary.

Habitat Needs:

Pink salmon often spawn closer to the sea than other species; sometimes they even spawn in the saltwater or estuaries.

*Pink salmon have the least dependence on freshwater environments of all the Pacific Salmon.

Sockeye



Also Known as:

Blueback (Columbia and Quinault Rivers), Red

Scientific Name:

Onchorhynchus nerka

Average Weight:

4-8 lbs, up to 15 lbs (1.8-3.6 kg, up to 6.8 kg)

Length at Maturity:

25-33 inches (63.5-83.8 cm)

Primary Human Use:

Commercial Canning

Sockeye Lifecycle

Sockeye salmon spawn August to November.

· Sockeye salmon stay in the river one to two years before smolting.

Habitat Needs:

Sockeye salmon use lake environments for spawning and rearing, although there are some Sockeye salmon that use the river channel for spawning and rearing. sockeye use the lower parts of the river because of the slow

water and eddies.

Five Salmon Species of Washington

ing Habitat			
Spawning/Rearing Habitat			
Length			
Weight			
Species Name (common and scientific)			,

Five Salmon Species of Washington

Species Name	Weight	Length	Spawning/Rearing Habitat
Chinook		36-58 inches	Spanning accurs in deep, fast water.
Oncochynchus tshawytscha	591 17-01		moinstem eddies, wood, cover.
Chum	0-10 lbs	25-40 inches	Spawn in side channels of
Oncorhynchus Keta			Real in slowhs, tidal makshes.
Coho	11 1101	24-38 inches	Spawn in Habutaries of a
Droophynchus Kisutch	6 14 8		side channels.
Pink.	711-6	70.20 inches	Spawn throughout
Oncorhynchus gorbuscho	7	2004	KIVEK. RECK III CAICANA
Sockeye	. [60] .	25-33 inches	Spawn and Reak in lakes and
Oncorhynchus nerka	-818-L	6	