

BRAYAN VILLAMAR ALVAREZ AND LUIS DIAZ/HERITAGE ELEMENTARY SCHOOL

## Want to learn more about salmon? Start here

Brayan Villamar Alvarez and Luis Diaz Lopez

Life cycle: When salmon are born they then they then travel to where they hatched. They do that to lay eggs and then they die, I know it's sad. According to Google, it happens because
they stop eating and return to freshwater and species. A female spring Chinook salmon can are left with no energy which makes them die.
They live up from 2 to 7 years Physical features: The Atlantic salmon weighs 12 pounds which is 5.5 kilograms. Pink salmon weigh about 3 to 6 pounds. When in the have a silver color. During the breeding season they undergo changes in color that vary by
species. A female spring Chinook salmon can
carry more than 4,000 eggs. Salmon also have a good sense of smell. Habitat and endangerment: Salmon are currently endangered because humans have destroyed or contaminated their habitat.
Salmon are also sensitive the the rising water emperatures. A salmon's habitat is tributaries temperatures. A salmon's habitat is tributa
of the Pacific ocean, and Atlantic Ocean.

What we learned having salmon in the classroom Rosalie Santibanez JOE SERNA JR.

It was fun when we first had the salmon eggs in the classroom. It was a
fun experience on how we sun experience on how we
stayed with them as they
grew into little fish. It was cute how they were so little and then they started watching them grow really big into their normal size. Then the seventh graders went and released she salmon in the
Mokelumne River and

How much do you know about California halibut?

## Kaleb Cossio

JOE SERRAJ.
CHARTRRSCHOOL
The California halibut is a fish part of the pleuu-
ronectidae family and it's ronectidae family and it's
a fish that blends in with a fish that blends in with
the sand in the bottom of the ocean. The fish can grow up to 8 feet long and 500 pounds. Some of its fa-
vorites things to eat are vorites things to eat are
the Pacific sardines, northern anchovies and the Greenland halibut. The California halibut
lives in the sandy bottom lives in the sandy bottom
of the ocean. Some of its predators are the bottlenose dolphins, angel sharks, sea lions and hu-



ULISSES REYES MARTINEZ/HERITAGE ELEMENTARY SCHOOL
Studying the life cycle of Chinook salmon Alexi Coughlin JOE SERNA JR. CHARTER SCHOOL
The life cycle of a Chinook salmon is a very interesting process! The process starts when the baby salmon are in tiny orange, red or pink eggs.
When they
When they hatch they become alevin
(sac fry) In their alevin stage they have (sac fry). In their alevin stage, they have a
yolk sac attached to their stomach, a yolk sac is a sac of nutrients that the salmon absorb and get nutrients from. During the time they have the yolk sac they cannot swim because it weighs them down, there
fore they flop around the rocks instead. Once they fully absorb their yolk sac they become fry. When they are fry they are finally able to swim!
The next stage of their life is parr. This
their sides.
Once they to the sea they are smolt
After that, when they have been in the sea for
adult.
Th. 8 years they become an adult when the of their life is a spawning cycle starts over again with new baby salmon! My class at Joe Serna got the privilege to raise baby salmon in our science class-
room with Mrs. Jacinto (Joe Serna's midroom with Mrs. Jacinto (Joe Serna's mid-
dle school science teacher) from when the salmon were eggs to when they were fry. samon were eggs to when they were fry.
Then they to be released. I loved learning about them and watching them

## Fast facts about California's native pipefish

## Jennifer Nieves

Pipefish are known to
be related to seahorses.
Like seahorses pipefish give birth instead place in their belly for
weeks without eating. Pipefish make clicking that can barely be seen by pipefish Pipefish are carnivores. 10 years. They grow up to

All about diamond turbot Juan Cerros
JOE SERNA JR.CHARTER SCHOOL
Did you know? The diamond turbot
got its name because it has a diamond got its name because it has a diamond-
shaped body. It can reach up to 46 censhaped body. It can reach up to 46 cen-
timeters (18 inches) in length. It has both eyes on the top.
The diamond turbot lives in subtropical water, on sand or mud bottoms at depths of up to 50 meters (which is 160
feet). Its diet is invertebrates such as polychaetes, mollusks, and shrimps. Lastly, the diamond turbot has a realyy silky, slimy feel.
The general geographic location of this fish ranges from Cape Mendocino ail the way to Cape San Lucas, Baja
ifornia, and the Gulf of California. The male can live up to 20 years, and the female can live up to 25 years. The usual color of the diamond tur-
bot is sandy-brown to gray with black bot is sandy-brown to gray with black
ish or greenish specks scattered throughout the body and extending on-

Are salmon alevin actually meroplankton?

## Alex Bishop

I recently went on a study trip to a reI recently went on a study trip to a re-
search vessel and my teacher mentioned that the fish larvae on a chart about plankton looked a lot like a a alevin. I hadn't thought much of it at first but when my
teacher mentioned it again in class I decidteacher mentioned it again in class I decid-
ed to look more into it. Ilooked into a lot of websites and all they said were that salmon eat meroplankton, nothing about alevin being meroplankton.
If you look at how the alevin move and
how they hop around they kind meroplankton. My science teacher went on the same research vessel with sixth graders and she came back and told us that one of
the scientists said, "Can they swim?" and since they can't swim, the scientist told my teacher that as long as they couldn't swim,
they were meroplankton. After they were meroplankton. After some re-
search and data searching I have finally found the answer to my question, "Are salmon alevin meroplankton?"

Releasing salmon in the river

## Nathalie Bautista

 JOE SERNA IR.CHARTERSCHOOL

This year, we went on a trip to release salmon hat we had in our class have them because we saw them grow each day. It was also a very beau tiful day when
leased them. March 3 was the day we got to release the salmon. We release
them by the hatchery First, when we go there it looked very much like a natural forest but the walk to
where we were released where we were released
was long. The drive was was long. The drive was
also not too long since it was a bit close to the
school. Then we got to a small were put into cups. Also we got to name our fish before we got to releas hem. I named my Jim
my since the fish looked like it had some pretty big eyes when you saw it through the cup. That was when we got to re got to release mine went to the left and swam away far. After that, we went to
some stations and some
learned stations $\begin{aligned} & \text { some } \\ & \text { sow } \\ & \text { new }\end{aligned}$ things. I learned more about their body parts and how each of their and we got to touch a fish but it was dead, sadAnother thing is we walk and we played a fish game about their life cycle. It was pretty funny and then we had game such as the fisher man, the salmon, and the predators. That was my favorite part and the best experience on thi
trip.
Overall had so fun going there because I liked how us seventh graders had the oppor
tunity to release the salmon we took care of and watched them grow throughout that month in the classroom.
I really hope we get to
do this another time Maybe you can get chance to do it too!

## SALMON

## CONTINUED FROM PAGE 1

 in schools for their safeplankton. They are cam ouflaged into their redd with spots. In my opin ion, the most interestingthing during this stage is they know when to hide when they feel endangered.
The fifth life cycle smolt. They migrate in to an estuary to get used to salt water. They begin to camouflage to the col
or silver for the ocean Their daily meals are plankton, small fish and insects. In my opinion, hink the most intrig during this stage is their capability of camouflage. The final life cycle
stage of salmon is the adult stage. They spend up to seven years in the ocean. Their predators are orcas, sharks, dol
phins and large birds. think the most interest ing thing during this stage is their counter shading.
Salmon
Salmon are intriguin fish. They can camou the ocean. Another rea-
son why they son why they are in
triguing is because they triguing is because they
travel from an estuary to saltwater to freshwater. My last reason for why they are intriguing
is because they eat tiny is because they eat tin
plankton. I never thought salmon woul be so interesting.

