

Virtual Field Trip Program Materials

Dear Teacher,

We are looking forward to our interactive virtual field trip with you and your learners. During the program your learners will have the opportunity to explore the unique animals of the Pacific Ocean with one of our Aquarium Educators.

The following materials are provided to support learner exploration and dive deeper into program topics. These resources are optional and can be used before or after your virtual field trip. Suggested discussion questions and a vocabulary words are also included.

Counting Critters (Prek-K)

- | | |
|----------------------------|-----------------------|
| • Fun With Shapes | Pre or Post activity |
| • Invertebrate Memory Game | Pre or Post activity |
| • Animal Coloring Page | Pre or Post activity |
| • Can You Count Them All | Pre or Post activity |
| • Draw a Tide Pool | Pre or Post activity |
| • Find the Tidepool Animal | Post program activity |

You may find additional activities for your learners in pre/post materials from other programs.

Thank you for your interest in our programs, we are excited to connect with you!

Sincerely,

The Aquarium of the Pacific Education Staff



Teacher Resources

Vocabulary Word Bank

Invertebrate: an animal lacking a backbone.

Shell: the hard protective outer case of a mollusk or crustacean.

Spines: any hard, pointed defensive projection or structure, such as a prickle of a hedgehog, a spike-like projection on a sea urchin, a sharp ray in a fish's fin, or a spike on the stem of a plant.

Tidepool: an isolated pocket of seawater found in the ocean's intertidal zone.

Tide: the alternate, gradual rising and declining level of the sea at the coastline, caused by the motion of the sun and moon.

Vertebrate: an animal of a large group distinguished by the possession of a backbone or spinal column, including mammals, birds, reptiles, amphibians, and fishes.

Activity Notes

Fun with Shapes

This activity can be done before or after the program. This activity is designed for your learners to recognize shapes, and color them in. If learners do not have something to color with, they can circle all the shapes they can find. Each of the animals in the picture has a shape associated with it, some might be more challenging. For example, the eye of the whale is a circle, but the whale itself is not any particular shape. There is a rectangle hiding in the ell, or the stingray is a square shape.

Invertebrate Memory Game

This activity could be a pre or post program activity, but it probably would work better as a post program activity since students will be introduced to all these images on the cards in the program. Printing on card stock, if available, will make it harder to see the printed images through the back of the paper. Regular printer paper will work too.

Pages can be printed out to each individual or you can print and cut them yourselves for the program. If handed out to each student an option for the program is to color the animals before cutting.

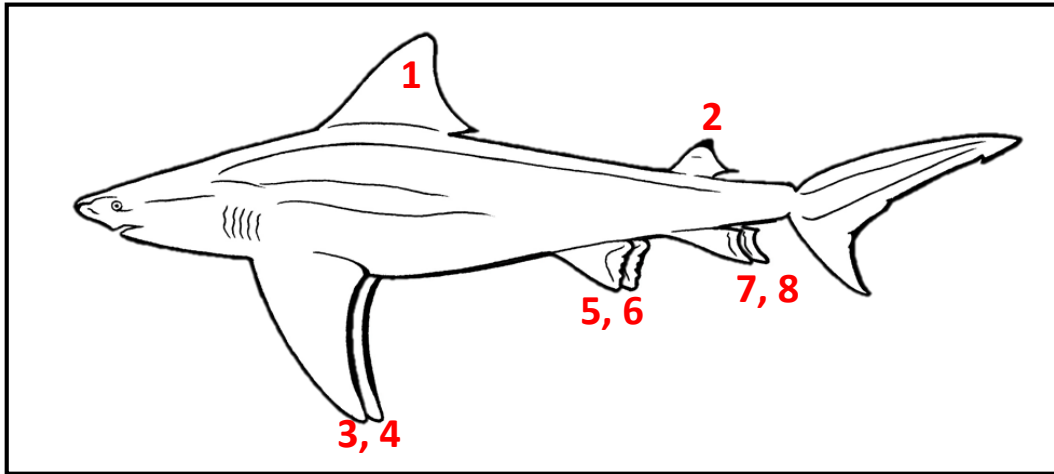
If your learners are especially adept at the game you there is also a page of animal cards without names, and cards only with names, to make it a little more challenging.

Animal Coloring Page

This is a coloring page you can use with your students as you wish.

Can You Count Them All?

This is a counting activity that your learners can complete at any time, pre or post program. The answers are 10 crab legs, 5 star arms, 8 (or 9 if you include the caudal or tail fin) shark fins, and 4 jelly stomachs. The diagram slightly shows that the fins on the sides and bottom are all paired: 2 pectoral fins, 2 pelvic fins, and 2 anal fins

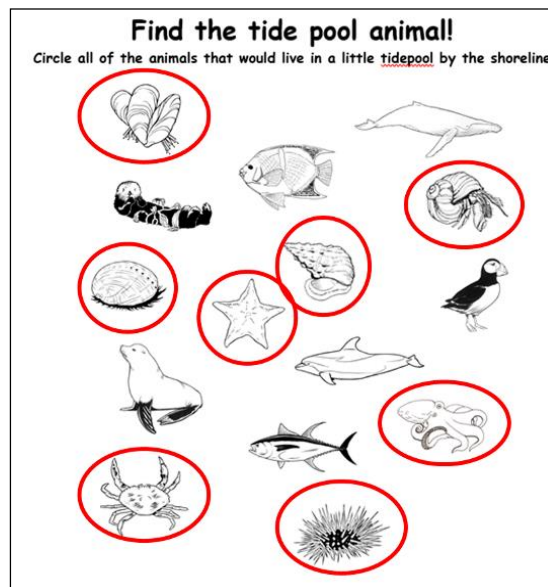


Draw a Tidepool

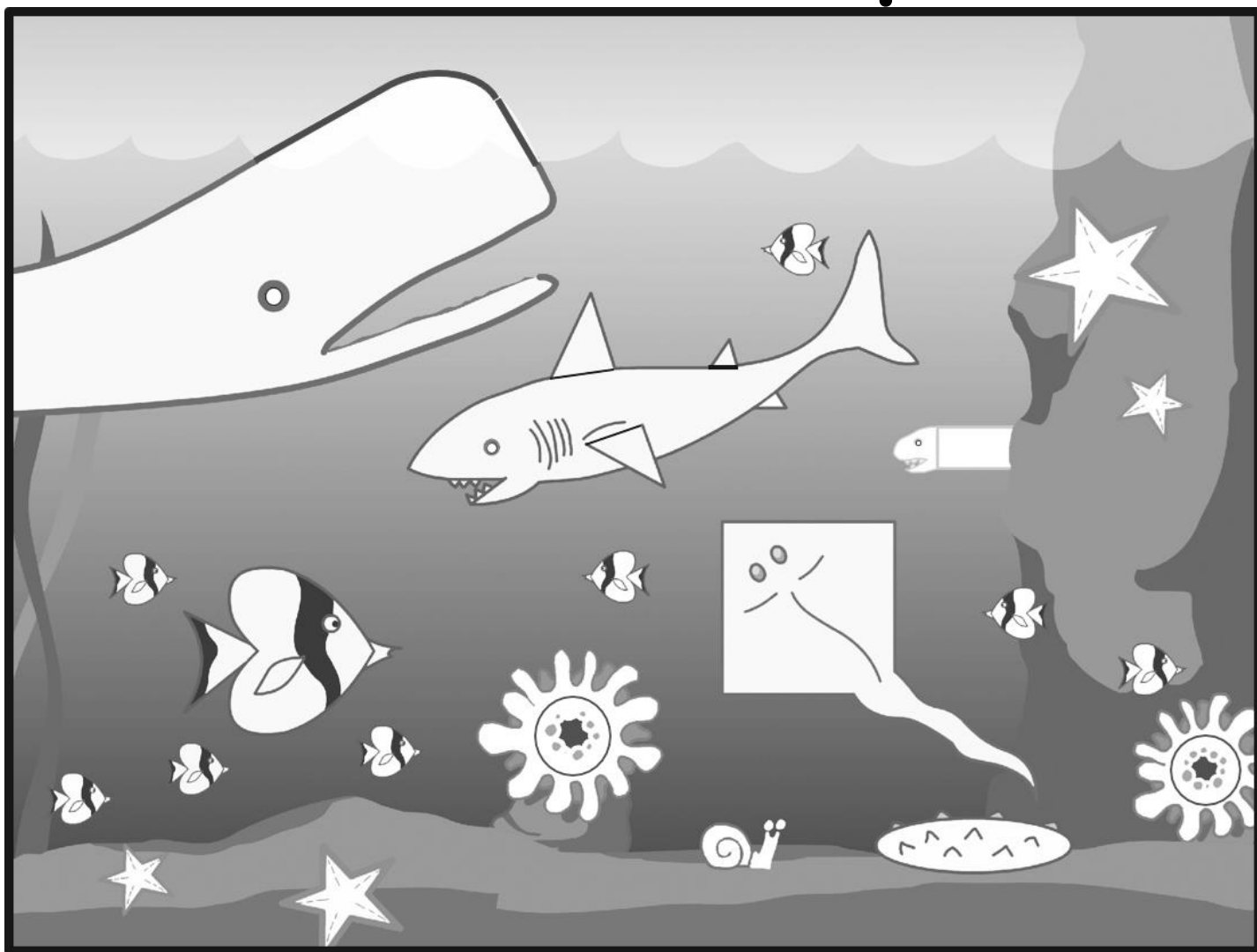
This drawing page can be done either pre or post program but works well as a post program activity to review the animals that we cover in program. Students can also put specific numbers of animals in like we do in the program. This could be paired with the “Find the Tidepool Animal page, students may cut out the tidepool animals and glue or tape them onto this page.

Find the Tidepool Animal

This activity is best used as a post program review to have students review animals they know and animals they learn live in tidepools. Below is a key to the activity. Alternative directions can include having students color only the tidepool animals, or color tidepool animals one color and all the others a different color, or learners can cut them out and sort them into groups of their choosing. This activity has potential to be modified for your learner’s needs.



Fun With Shapes

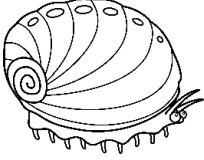
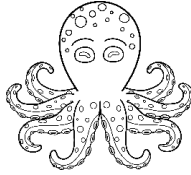
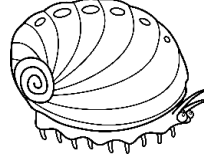
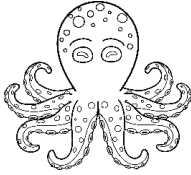
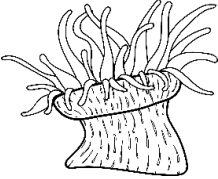
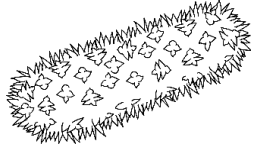
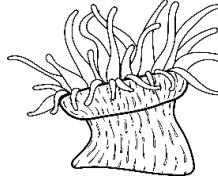
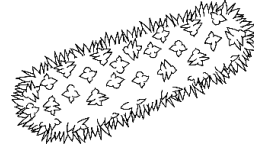
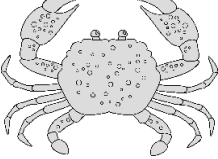
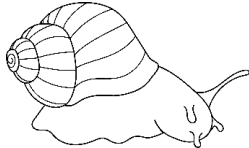
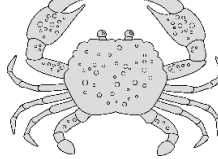
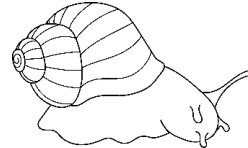


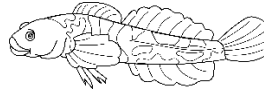


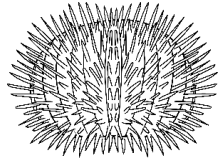

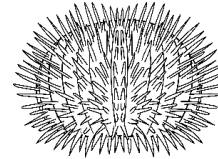


1. Find the ♥ HEARTS - Color them YELLOW.
2. Find the ☆ STARS - Color them PINK.
3. Find the □ SQUARE - Color it BLUE.
4. Find the ○ OVAL - Color it ORANGE.
5. Find the ○ CIRCLES - Color them PURPLE.
6. Find the △ TRIANGLES - Color them BLACK.
7. Find the ▭ RECTANGLE - Color it GREEN.

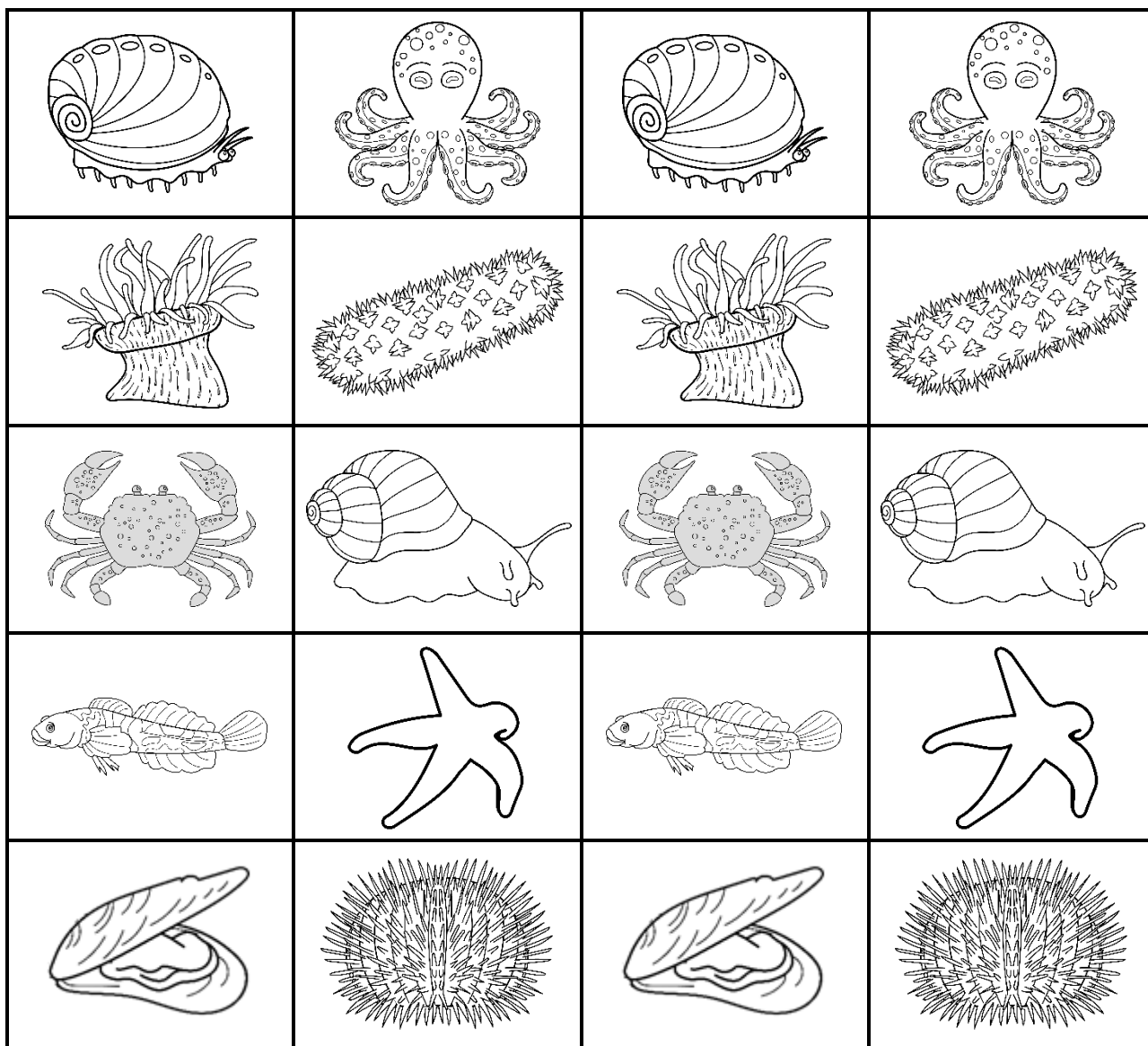
Invertebrate Memory Game

Print out and then cut out the animal cards.

Play the memory card game and see if you can match the animals. Challenge your classmates and friends to a tide pool memory game!

ABALONE 	OCTOPUS 	ABALONE 	OCTOPUS 
ANEMONE 	SEA CUCUMBER 	ANEMONE 	SEA CUCUMBER 
CRAB 	SNAIL 	CRAB 	SNAIL 
FISH 	SEA STAR 	FISH 	SEA STAR 
MUSSEL 	SEA URCHIN 	MUSSEL 	SEA URCHIN 

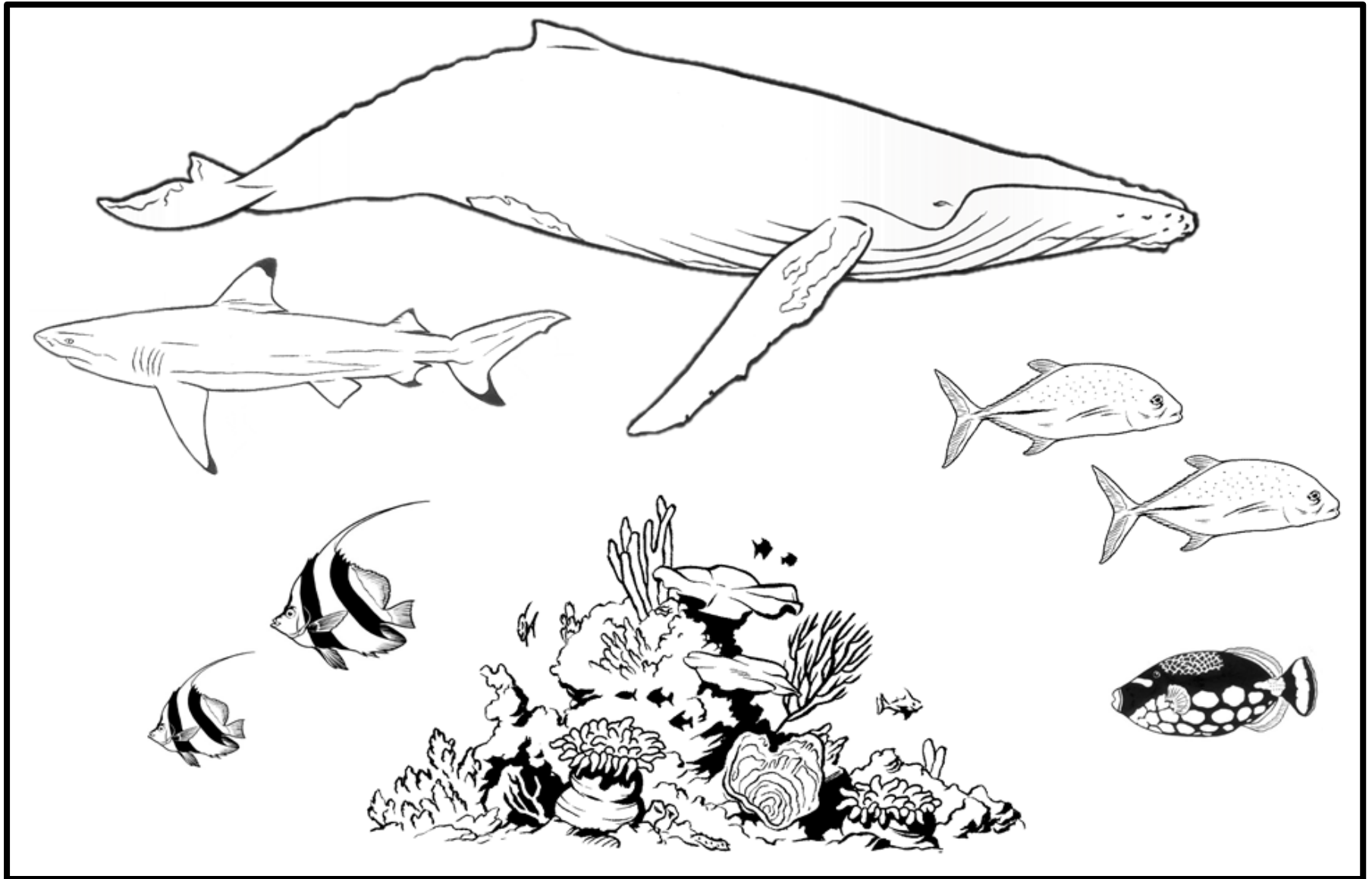
Here are the unlabeled cards



And the Name Only cards if you want to match
unlabeled animals to name cards

ABALONE	OCTOPUS	ABALONE	OCTOPUS
ANEMONE	SEA CUCUMBER	ANEMONE	SEA CUCUMBER
CRAB	SNAIL	CRAB	SNAIL
FISH	SEA STAR	FISH	SEA STAR
MUSSEL	SEA URCHIN	MUSSEL	SEA URCHIN

Animal Coloring Page

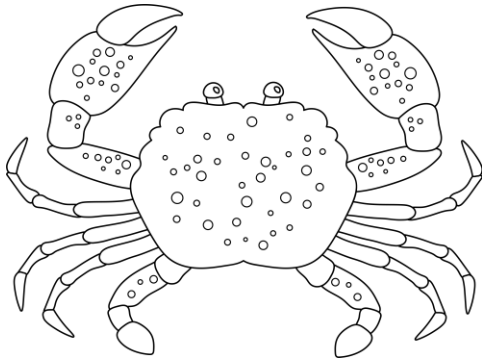


Can You Count Them All?

Help Olivia the Octopus count! Let's practice our numbers with Olivia the Octopus

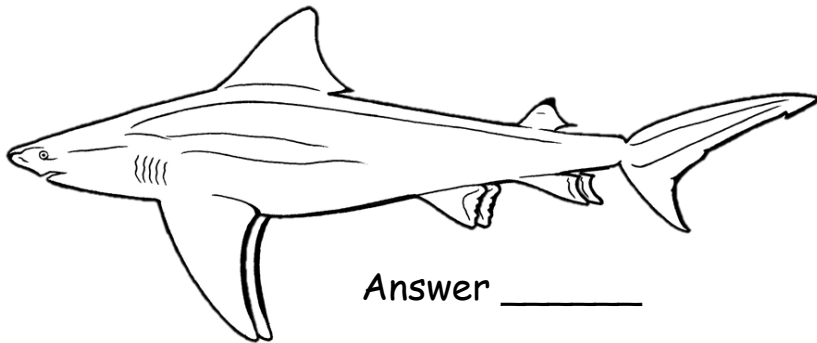


Let's count the legs on the Crab,
how many are there including claws?
What do you think they use claws for?



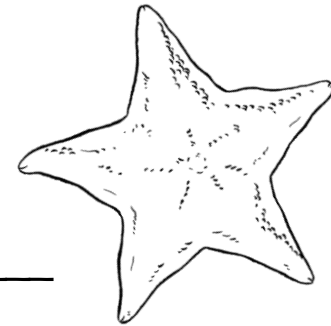
Answer _____

How many FINS does the shark have? Look closely.
Do you know what shape their fins are?



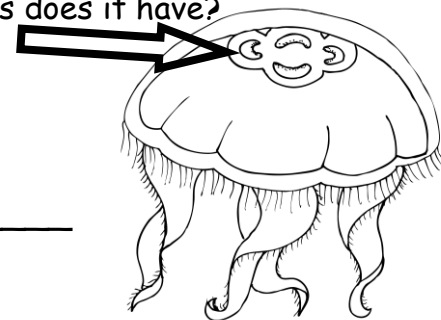
Answer _____

How many arms does the
sea star have? Did you know stars can
regrow an arm if they lose it?



Answer _____

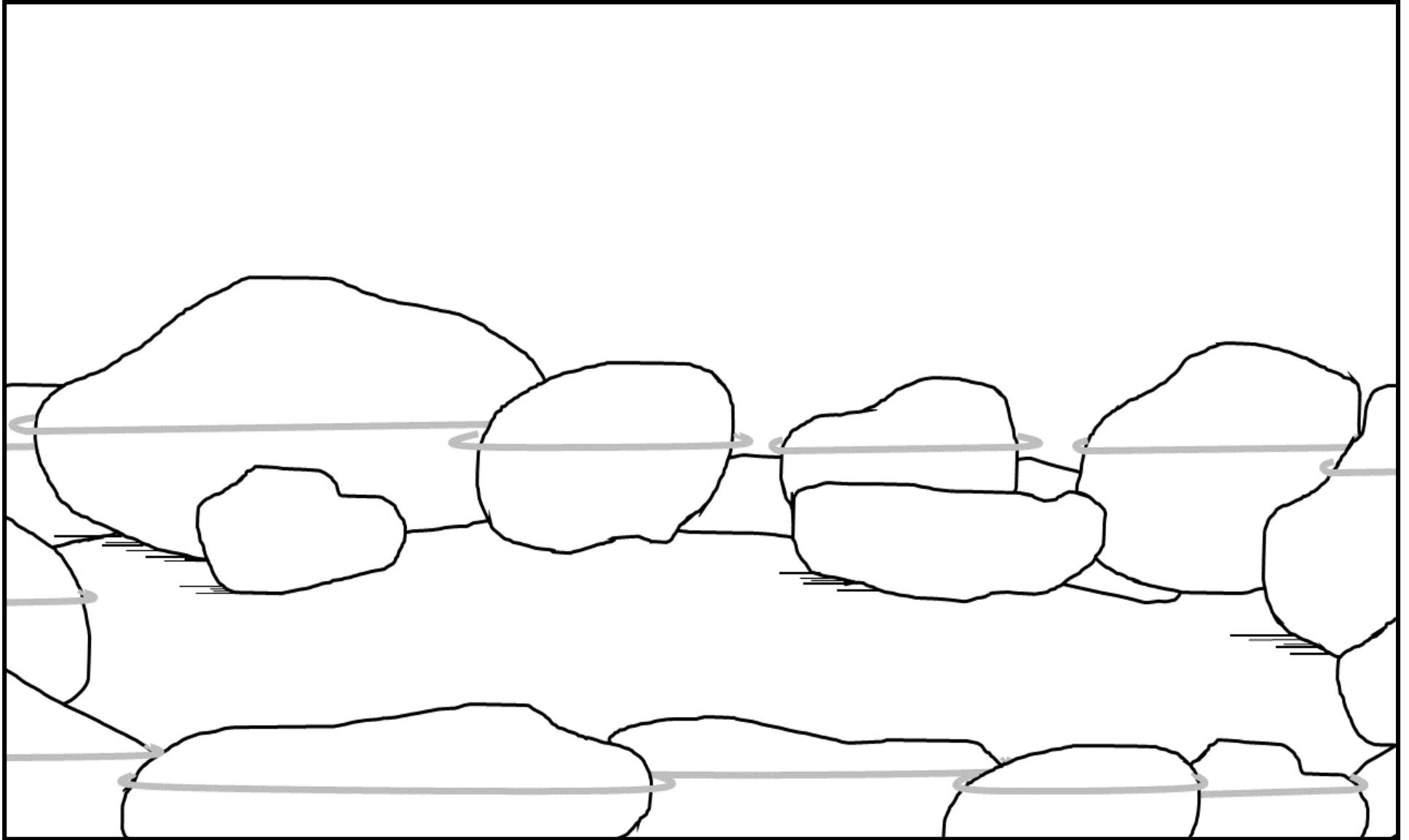
Look at the top of the jelly, how
many stomachs does it have?



Answer _____

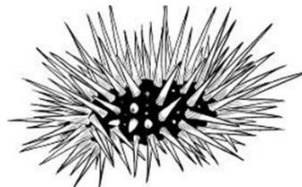
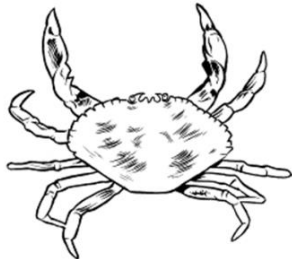
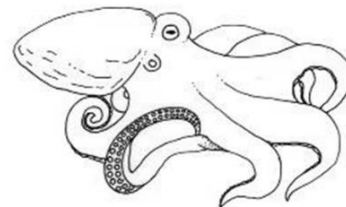
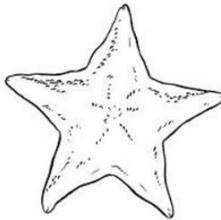
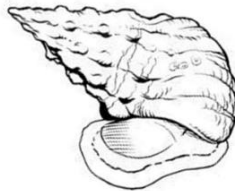
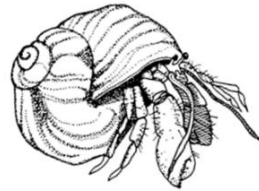
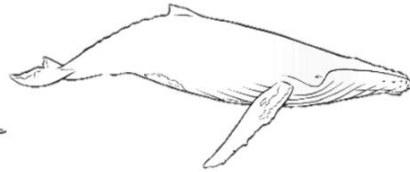
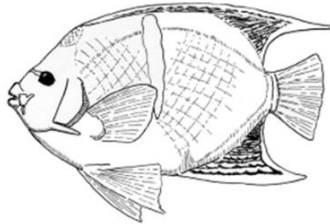
Draw a Tidepool

Draw and color all the amazing animals we can find in a tide pool!



Find the tidepool animal!

Can you find all 8 animals you may find in a tidepool from the pictures below?
Circle all of the animals that would live in a little tidepool by the shoreline



Most animals that live in tidepools are smaller. Some animals are always in or around the tidepools, like barnacles, while others sometimes just get caught in one when the tide goes down.