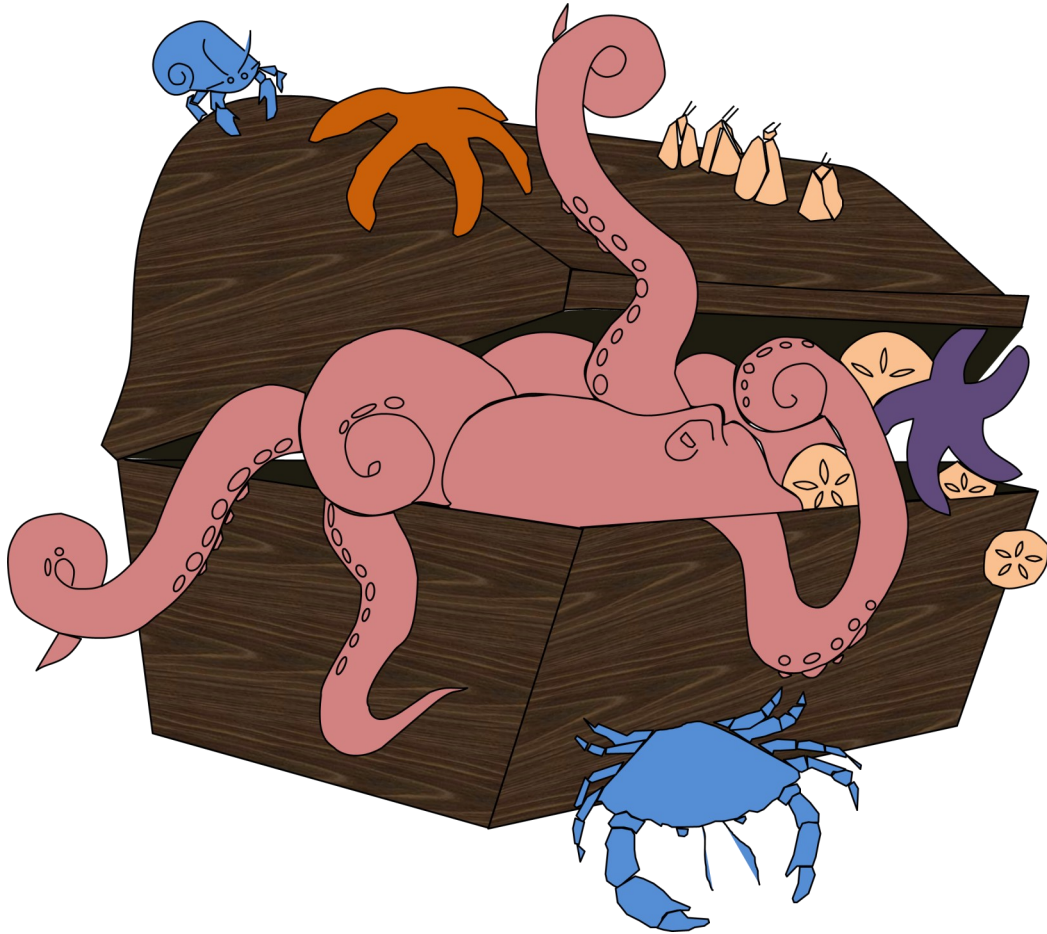
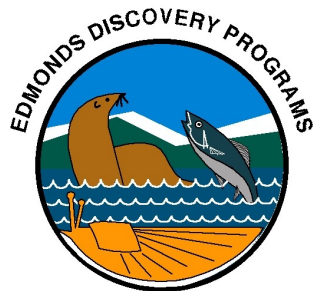


# Edmonds Beach Ranger Program



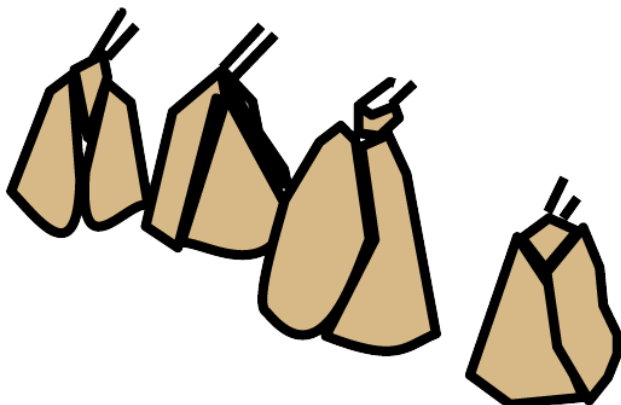
## Video Workbook



# Edmonds Online Beach Ranger Program

This packet is intended for grades 3-6th. Watch the beach ranger videos and follow along with this packet. You will find questions from the videos and bonus activities.

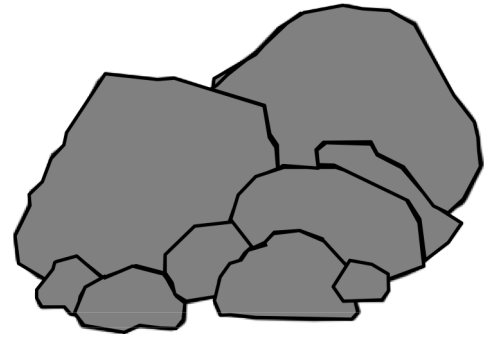
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Video Two: Plankton & the Food Web	5
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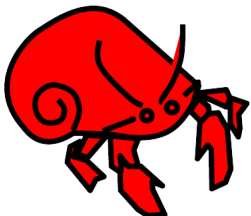
Edmonds Discovery Programs  
Department of Parks,  
Recreation & Culture  
425-771-0230

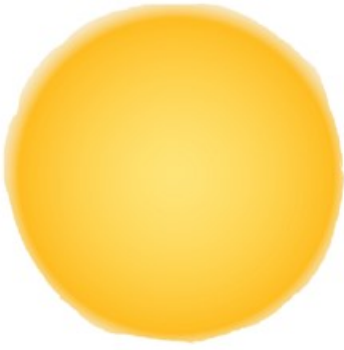
## VIDEO ONE: Introduction, Tides & Zones

Watch video one here: <https://www.youtube.com/watch?v=4HzEed809rc>



1. What is a sanctuary?
  - A. A sugary drink sold during summer.
  - B. One of the ferry boats.
  - C. A safe, protected place for animals to live.
2. Tides are caused by gravitational force of the \_\_\_\_\_ and \_\_\_\_\_.
3. True or False: There are two high tides and two low tides each day in Edmonds.
4. While you explore the beach, when will you see more animals? Circle one. High tide or Low tide.
5. Why are most of the animals closed up at low tide? \_\_\_\_\_  
\_\_\_\_\_.



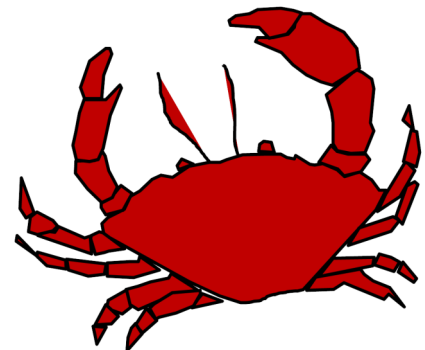
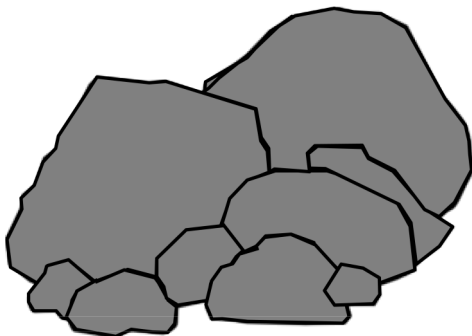


# BONUS Word Search



ANIMALS
EXPLORE
GRAVITY
HABITAT
HIGH TIDE
LOW TIDE
MARINE
MOON
SANCTUARY
SUN
TIDES

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



## VIDEO TWO: Plankton & the Food Web

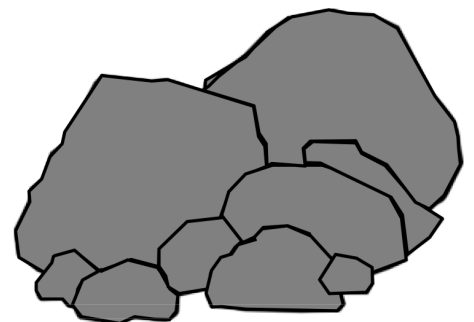
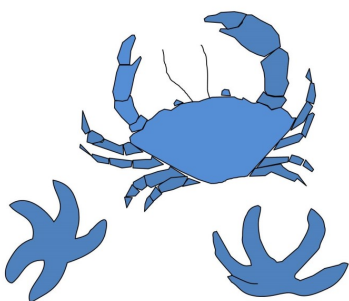
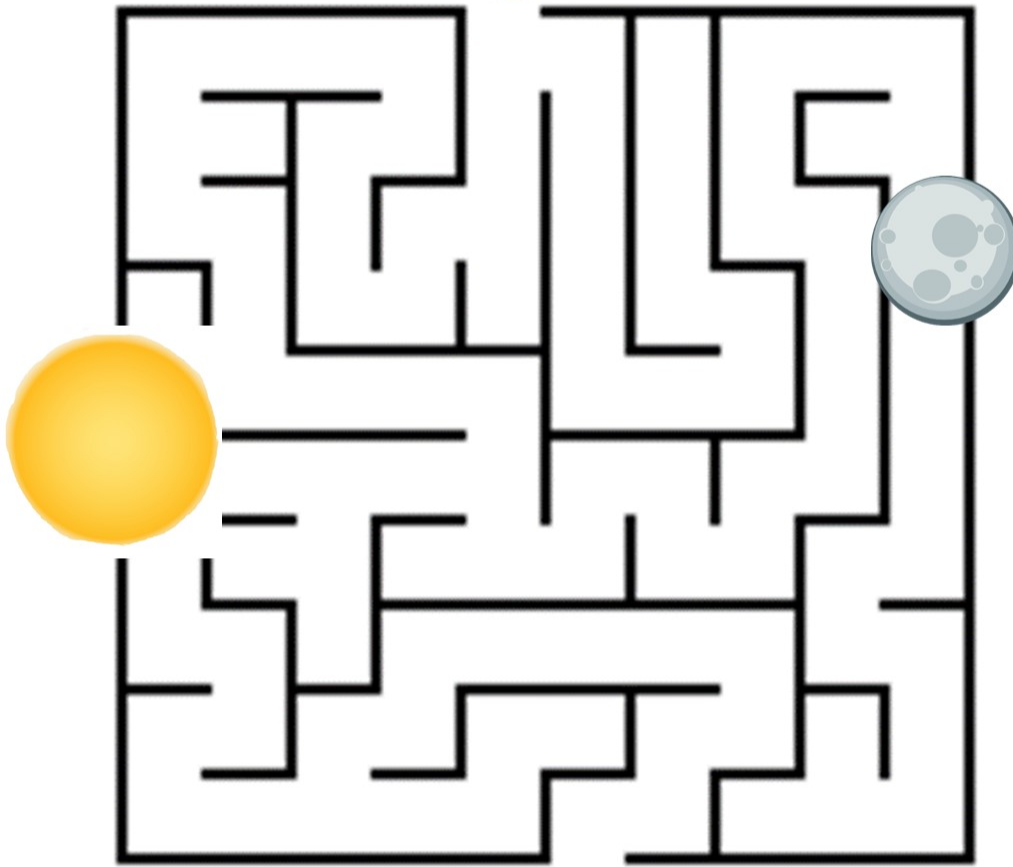
Watch video two here: <https://www.youtube.com/watch?v=AVFi465RbKw>

1. What zone do barnacles live in?
  - A. Low tide zone
  - B. Middle tide zone
  - C. High tide zone
2. What do barnacles eat?
  - A. Anemones
  - B. Crabs
  - C. Plankton
3. True or False: Plankton are mostly microscopic animals and plants in the oceans.
4. There are two types of plankton. Zooplankton are \_\_\_\_\_ plankton and Phytoplankton are \_\_\_\_\_ plankton.
5. What part of the barnacle is glued to the rock? \_\_\_\_\_.



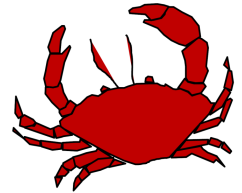
# BONUS

Travel through the maze and guide the barnacle to the plankton.

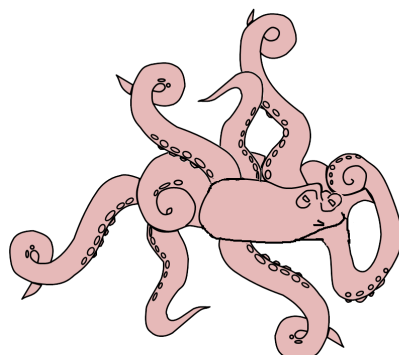


## VIDEO THREE: Mussels, Crab, Seaweed

Watch video three here: <https://www.youtube.com/watch?v=l9KuxCS9xco>

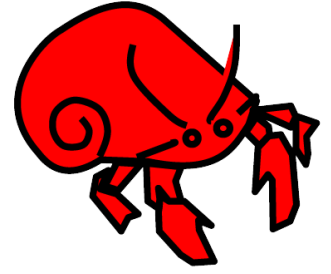


1. How do bisset threads help mussels?
  - A. They decorate the shells.
  - B. They hold the mussel to the rocks.
  - C. They tell other mussels who is the best.
  
2. Where do shore crabs hide?  
\_\_\_\_\_.
  
3. True or false: crabs larger than your crab measuring tool can pinch really hard and hurt you.
  
  
4. A crab molts it's \_\_\_\_\_ as it grows. The \_\_\_\_\_ can be found on the beach.
  
  
5. What three colors of seaweed can we find on the Edmonds beach? \_\_\_\_\_

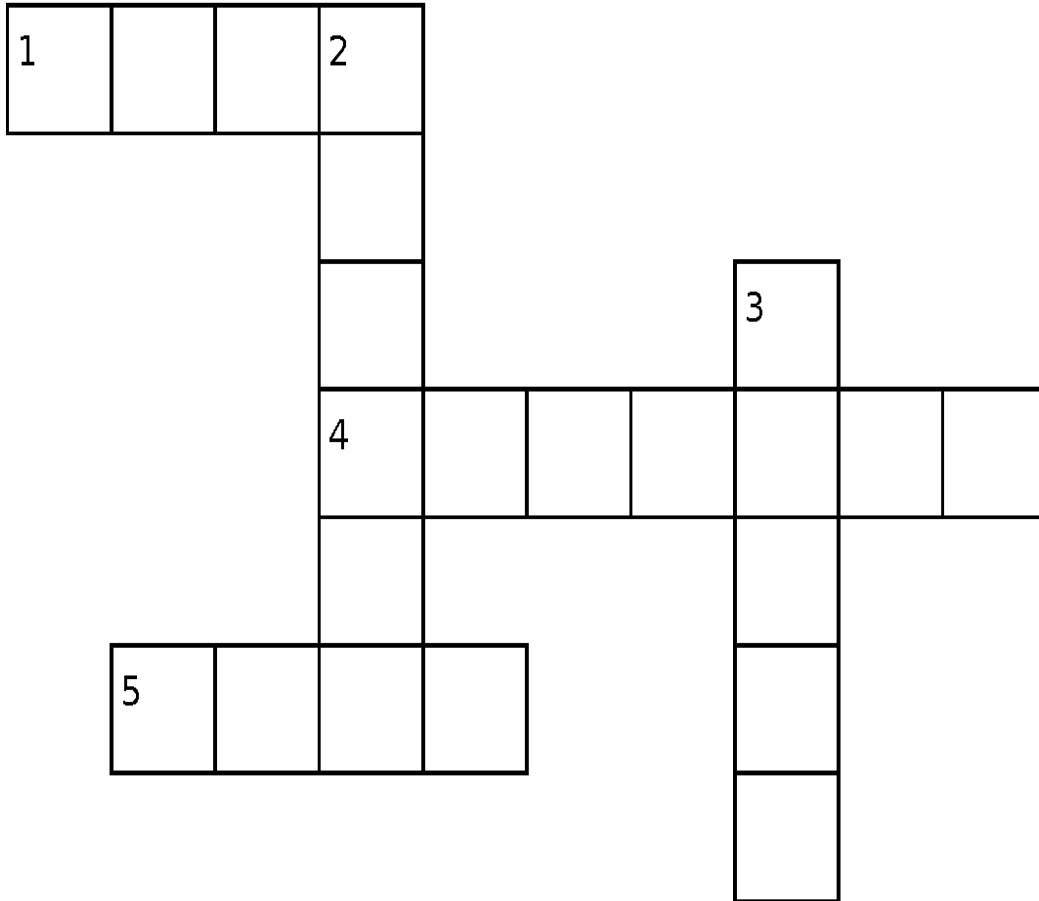




# BONUS



## Crossword Puzzle



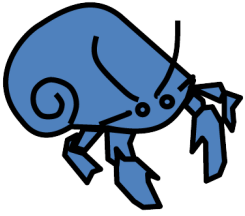
**Down:**

- 2. The thread mussels shoot out.
- 3. Where you can find lots of exciting stuff.

**Across:**

- 1. Hard shelled animal found on beach.
- 4. Algae and plants that grow in the water.
- 5. The empty shell crabs shed as they grow.





## VIDEO FOUR: Anemones & Sea Stars

Watch the video: <https://www.youtube.com/watch?v=GwsJf5nWRJ4>

1. When do anemones feed?

- A. Low tide
- B. high tide.

2. What do anemones eat?

\_\_\_\_\_.

3. True or False: Anemones feel sticky because they have special hooks for catching prey.

4. How do sea stars move? \_\_\_\_\_

\_\_\_\_\_.

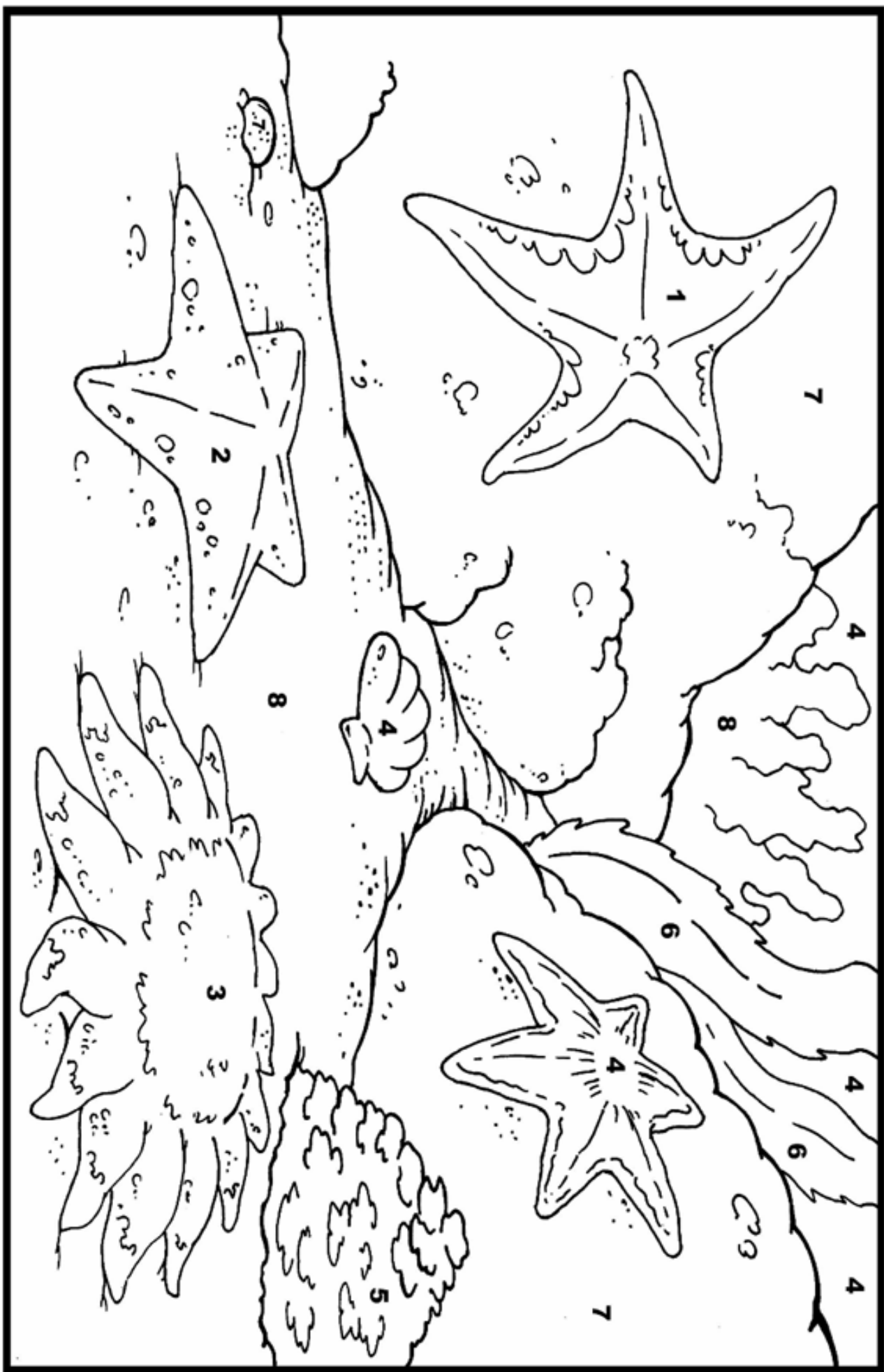
5. True or false: sea stars push their stomach outside their body to eat their prey.



# Color the Sea Star

## Color Code

- 1 - Pink
- 2 - Orange
- 3 - Red
- 4 - Light Blue
- 5 - Purple
- 6 - Green
- 7 - Blue
- 8 - Light Green



## VIDEO FIVE: Eelgrass, Clams, & Moon Snails

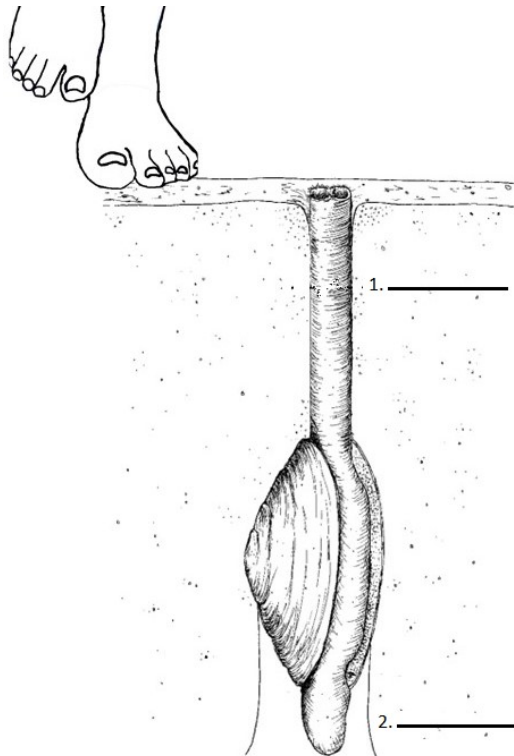
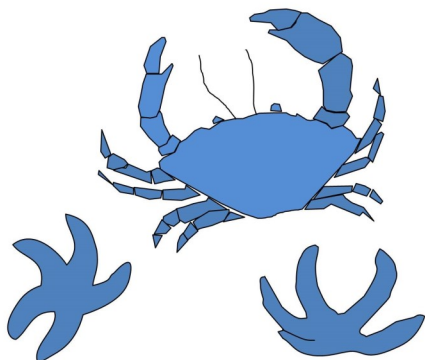
Watch the video: <https://www.youtube.com/watch?v=4V2WnU1FgxI>

1. True or false: the ocean has grassy meadows.
2. What are three things Eelgrass provides for animals?

\_\_\_\_\_

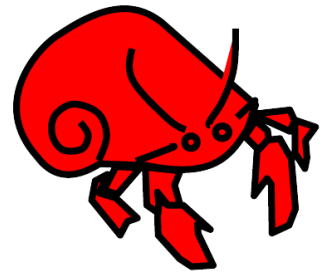
\_\_\_\_\_.

3. Label the clams foot and siphon.



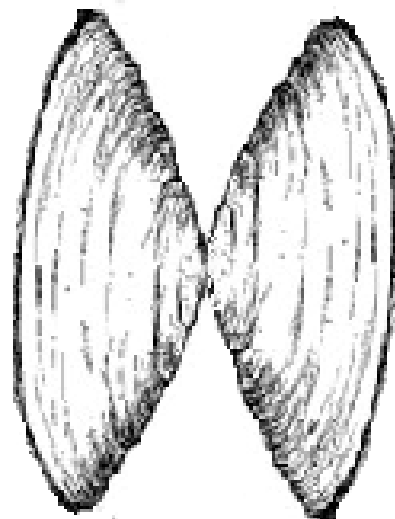
4. What predatory animal creates a perfect circular hole in a clam shell by drilling into it? \_\_\_\_\_.

5. Are moon snails from the moon? Yes or No.



### BONUS

Color the Clam Parts below. Then cut out the shell, siphon and foot. Glue it together to create your own clam!



## VIDEO SIX: How to be a Beach Hero

Watch the video: [https://www.youtube.com/watch?v=suKPmPj8\\_P8](https://www.youtube.com/watch?v=suKPmPj8_P8)



1. True or false: walking on the beach is the best way to move so you don't step on and harm animals.

2. What should you NOT do when turning a rock over?

A. Throw it out of the way.

B. Lift the rock up gently.

C. Make sure it's smaller than your head.

D. Lay the rock gently back down so it sits the way you found it.



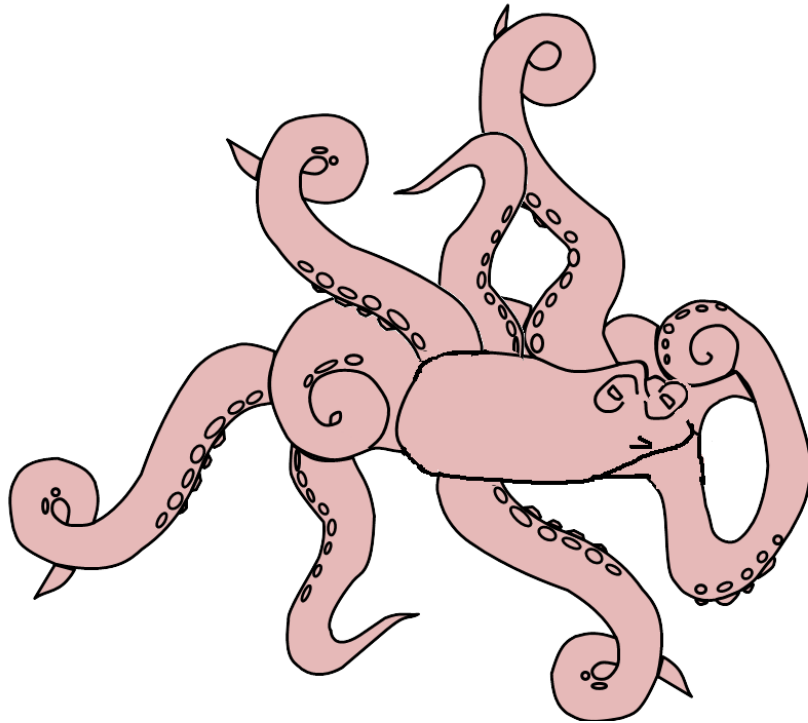
3. Can an octopus bite with its sharp beak? YES or NO

4. Is it safe to touch a jellyfish that has washed up dead on the beach?  
YES or NO.

5. True or false: when you touch or pick up fish it can rubs off their protective mucus coating.

6. Why should we leave all shells, driftwood and other natural items on the beach?

---



**BONUS: Fill in the blank with the beach hero pledge.**

To remain a Beach Hero in good standing, I Pledge to:

- Handle \_\_\_\_\_ gently and never pry them loose from a rock.
- Step slowly and carefully to avoid \_\_\_\_\_ animals.
- Leave all \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ where I find them.
- Tell my friends and family how to \_\_\_\_\_ the beach.

# How to be a beach hero

1. Handle animals gently—never pry them loose.
2. Step slowly and gently to avoid crushing animals.
3. Leave all rocks, shells, and driftwood—they're habitat!
4. Tell your friends and family how to take care of the beach



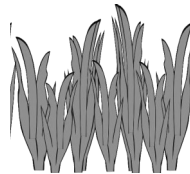
## MARINE SANCTUARY FIELD GUIDE



Bull kelp



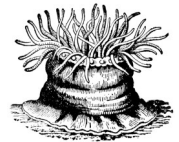
Rockweed



Eelgrass



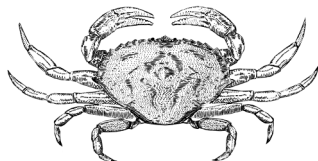
Sea lettuce



Anemone



Shore crab



Dungeness crab



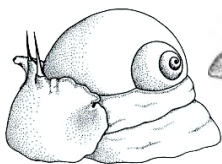
Hermit crab



Kelp crab



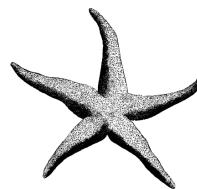
Barnacles



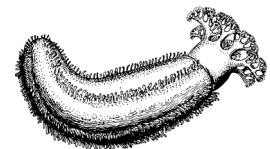
Moon snail and egg collar



Whelk



Sea star



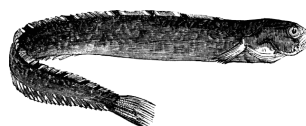
Sea cucumber



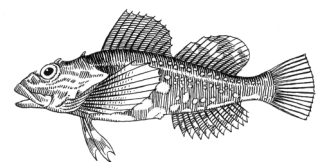
Cockle



Mussels



Gunnel



Tidepool sculpin