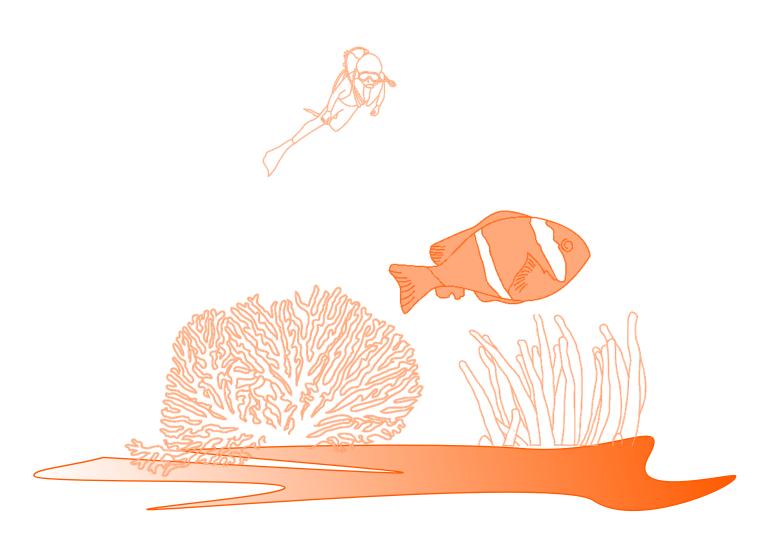
# Coral Reef Activity Book



## Coral Reefs... ...for health, for wealth, for life

#### Did you know...

Coral reefs can be found in all tropical areas of the world. Corals can also be found in deep cold oceans.

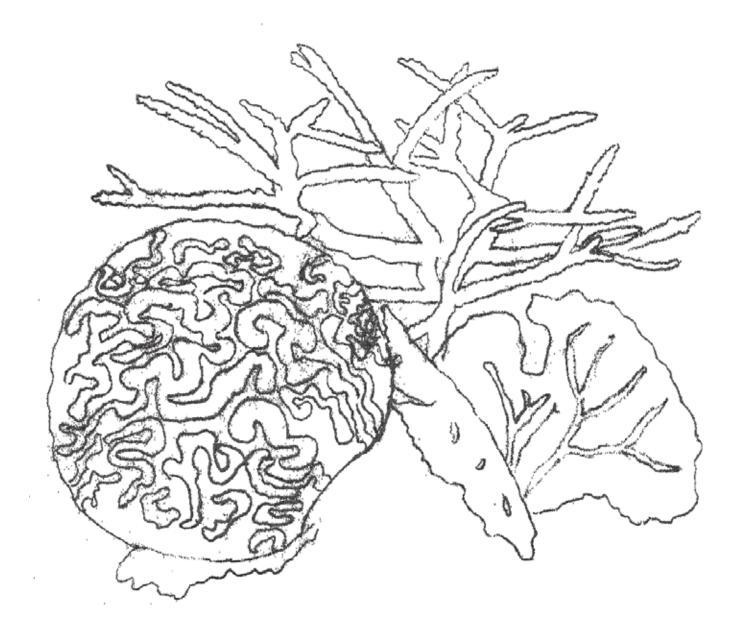


Coral reefs can be large or small. The Great Barrier Reef in Australia is over 1,200 miles long.

Most corals grow very, very slowly... it can take hundreds to thousands of years for a reef to form.

Coral reefs are some of the oldest ecosystems on the planet.

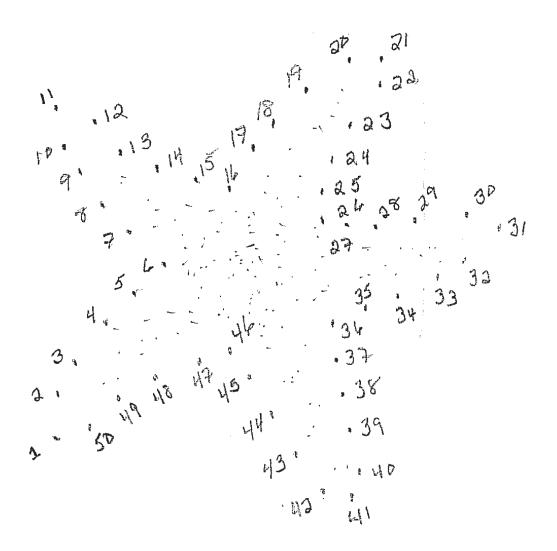




There are thousands of species of coral, some named for their colors, others named for their shapes. In this picture are a brain coral, a staghorn coral, and a seafan. Can you guess which one is which?

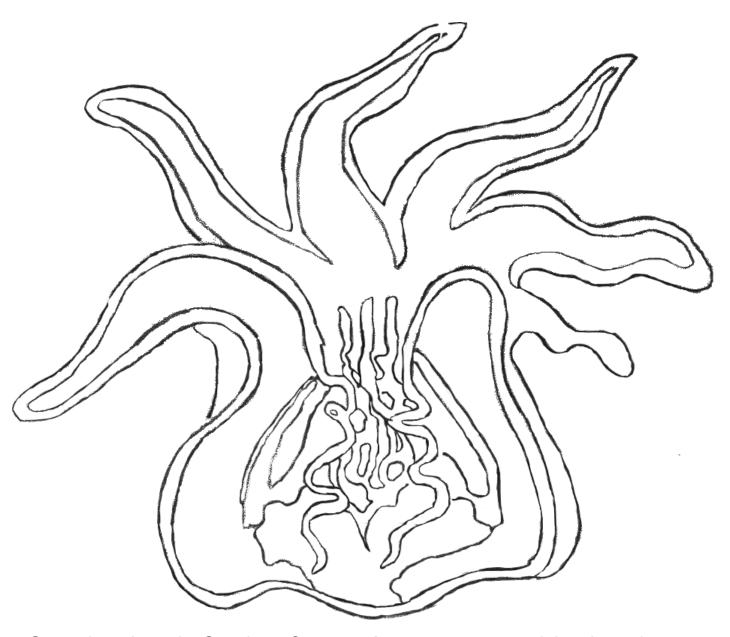


#### Connect the dots



Sea Stars have a strange way of eating. When they find something tasty, they can push their stomachs outside of their body and digest their food right there! Once they're finished, they pull their stomach back inside... until the next meal.





Coral animals (polyps) are often protected by hard skeletons that form many different shapes. Large areas of coral are called coral reefs, and these occur in warm shallow seas.



#### Word Search

#### Can you find these coral words?

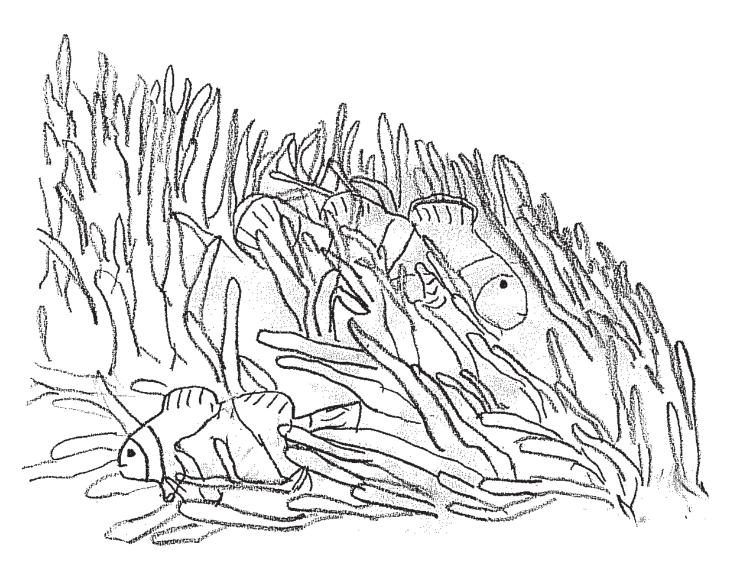
S	A	E	Z	0	0	P	L	A	N	K	T	0	N	R
T	0	C	0	R	A	L	R	E	E	F	E	0	R	0
0	K	P	0	L	Y	P	R	D	E	A	T	S	A	A
N	0	L	X	0	T	L	C	G	A	M	L	N	R	0
Y	S	P	A	W	N	I	N	G	N	S	L	T	T	M
S	M	T	N	E	M	A	T	0	C	Y	S	T	N	N
P	H	0	T	0	S	Y	N	T	H	E	S	I	S	E
A	A	T	H	0	R	S	E	L	K	H	0	R	N	В
W	T	A	E	N	E	E	I	S	S	A	F	N	A	A
N	0	В	L	E	A	C	H	I	N	G	T	L	В	R
I	L	L	L	N	T	E	N	E	Z	R	C	G	R	R
N	L	E	A	N	E	M	0	N	E	S	0	P	A	I
G	E	T	E	M	P	E	R	A	T	U	R	E	I	E
D	I	V	E	R	S	E	A	N	I	M	A	L	N	R
D	I	V	E	R	S	E	A	F	A	N	L	R	A	L

#### Words are found down and across:

Zooxanthellae Coral reef Anemone Zooplankton Polyp Photosynthesis Animal Stony Nematocyst Elkhorn Spawning
Diverse
Bleaching
Temperature
Brain
Soft coral
Sea fan
Atoll
Barrier



**Table** 

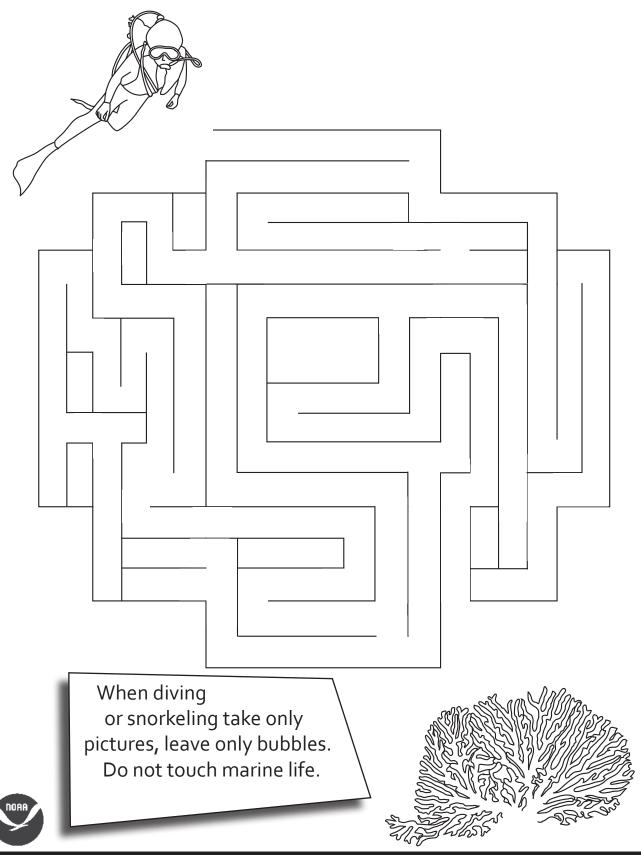


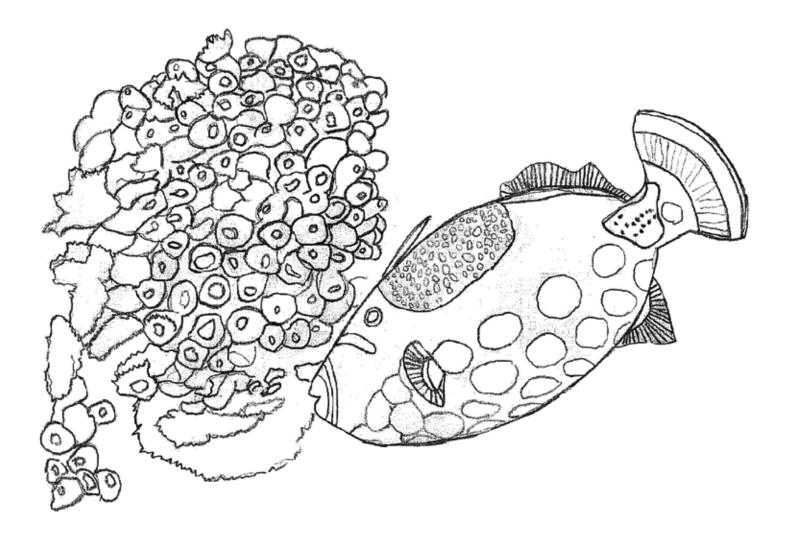
Several species of fish spend part or all of their lives in association with sea anemones. The clownfish does not stray far from its anemone. This lets the fish avoid being eaten by other fish by hiding in the anemone's stinging tentacles. Clownfish have a special mucus coating that protects them from the anemone's stinging cells.



#### Maze

#### Can you help the scuba diver find the sea fan?



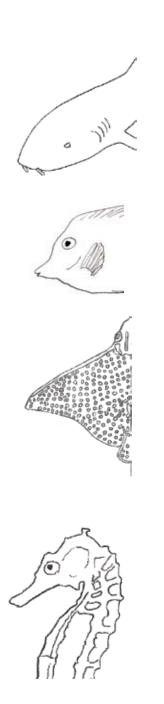


Many reef fish are very colorful, like this clown triggerfish. Spots and stripes break up the body shape and make it hard for their enemies to find them. This is called disruptive coloration. Other reef fishes have "false eye spots" that help them confuse predators.



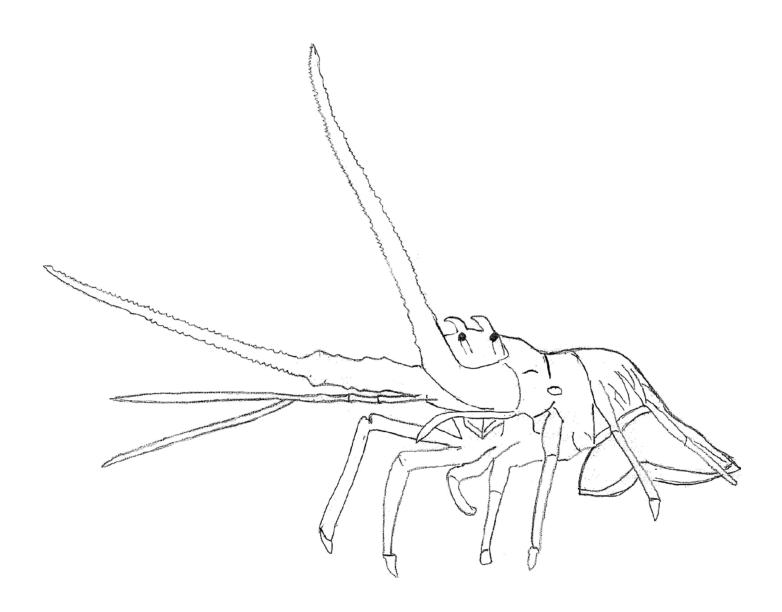
#### match the animals!

Draw a line from half an animal on the left to the other half on the right. See what Sea Horses, Sharks, Tangs, and Eagle Rays look like.







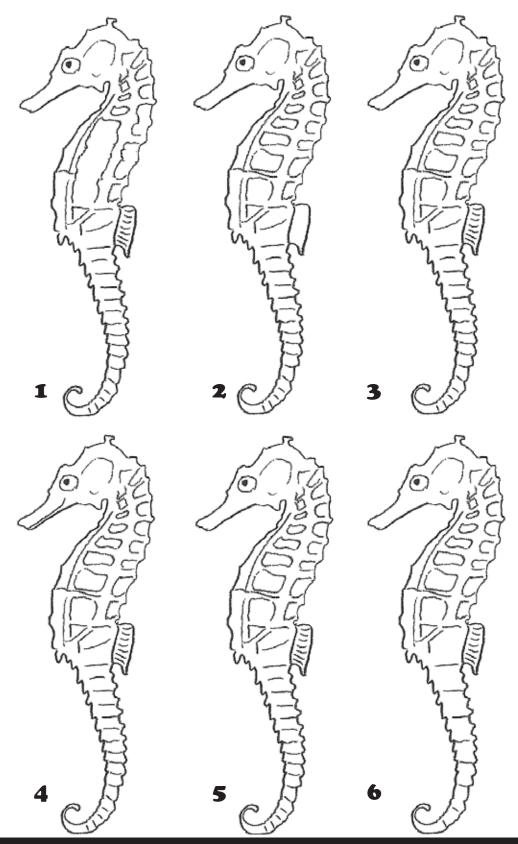


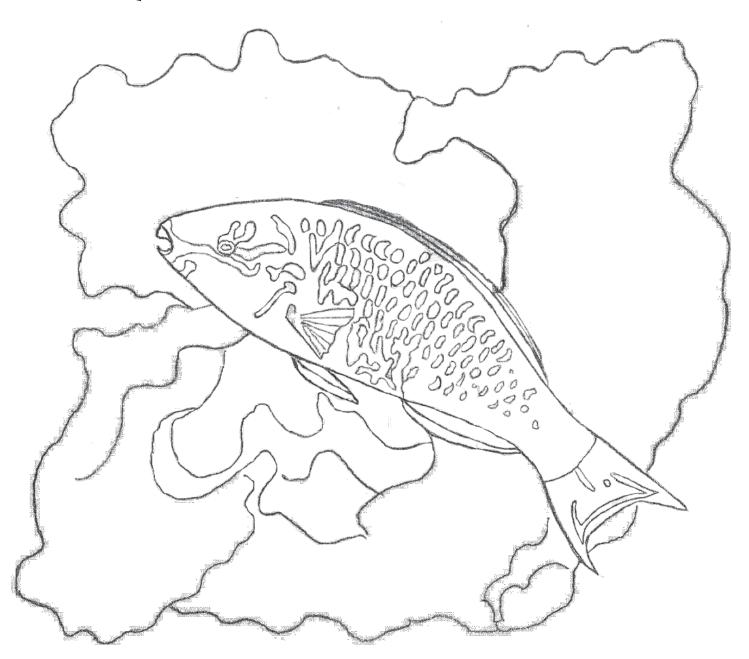
The Spiny lobster found in the Caribbean is different from the Maine Lobster that most people eat in restaurants. The Spiny lobster does not have claws, but uses sharp spines for protection.



#### match the Sea horses

#### Which two are the same?





Parrotfish are named for their bright colors and strong beak-like jaws, used to bite off chunks of coral. They like to eat the plants (algae) that grow on corals. Parrotfish have a special grinding plate in their throat which they use to grind up the coral's hard skeleton. When they are finished, all that is left is fine sand.



#### Connect the dots



Boxfish are covered with a bad-tasting slime, which protects them from being eaten.



Coral reefs are in danger of disease and possible disappearance due in part to human activities.



A reef is like a busy city. More creatures live on coral reefs than in any other habitat in the ocean. Each animal and plant on or around the reef has a job to keep the ecosystem healthy. How many different animals can you count on this reef?



#### Word Search #2

#### Can you find these coral reef words?

C	L	Y	H	L	R	В	F	N	L	P	M	F	W	I
R	E	E	F	S	H	A	R	K	P	N	P	0	0	В
A	H	L	D	H	G	R	G	H	D	W	G	0	R	D
В	I	L	H	M	0	R	A	Y	E	E	L	D	M	P
S	P	0	N	G	E	A	N	G	E	L	F	I	S	H
N	R	W	R	R	R	C	A	R	P	S	L	V	U	R
I	R	T	F	0	W	U	A	E	C	E	L	E	D	F
N	0	A	Y	T	A	D	T	L	0	A	H	R	S	A
L	Y	N	T	R	E	A	0	D	R	U	M	S	A	F
Y	W	G	L	0	В	A	L	W	A	R	M	I	N	G
G	R	0	U	P	E	R	L	E	L	C	A	T	Y	E
В	A	R	R	I	E	R	Y	R	S	H	S	Y	M	N
Y	S	W	E	C	F	R	1	N	G	I	N	G	A	A
A	S	W	R	A	M	w	A	0	I	N	Y	E	Y	В
J	E	W	E	L	R	Y	A	F	L	R	I	M	0	A

#### Words are found down and across.

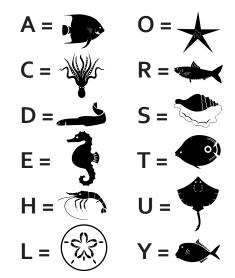
Food
Diversity
Fringing
Barrier
Atoll
Global warming
Moray eel
Reef shark
Crabs
Corals
Yellow tang

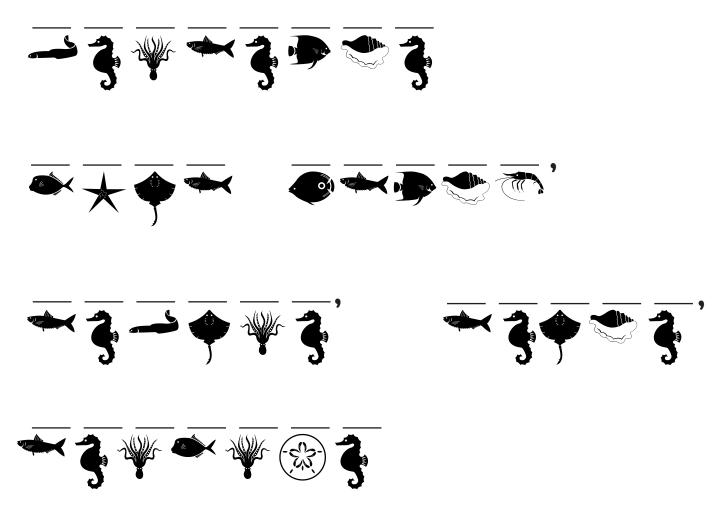
Tropical
Angelfish
Deep coral
Sea urchin
Worms
Wrasse
Sponge
Barracuda
Grouper
Drum
Jewelry



#### Secret Code

Even if you live far from the ocean, your actions impact coral reefs around the world. Find out how you can make a difference by decoding the secret message below.



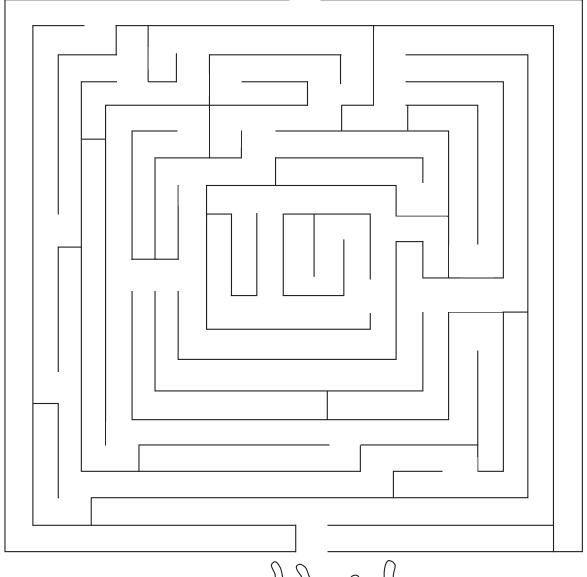




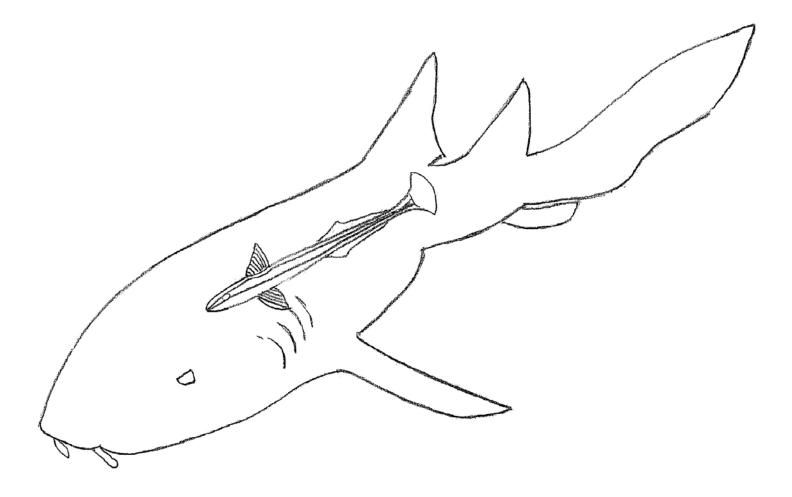
#### Maze

#### Can you help the clownfish find his anemone?





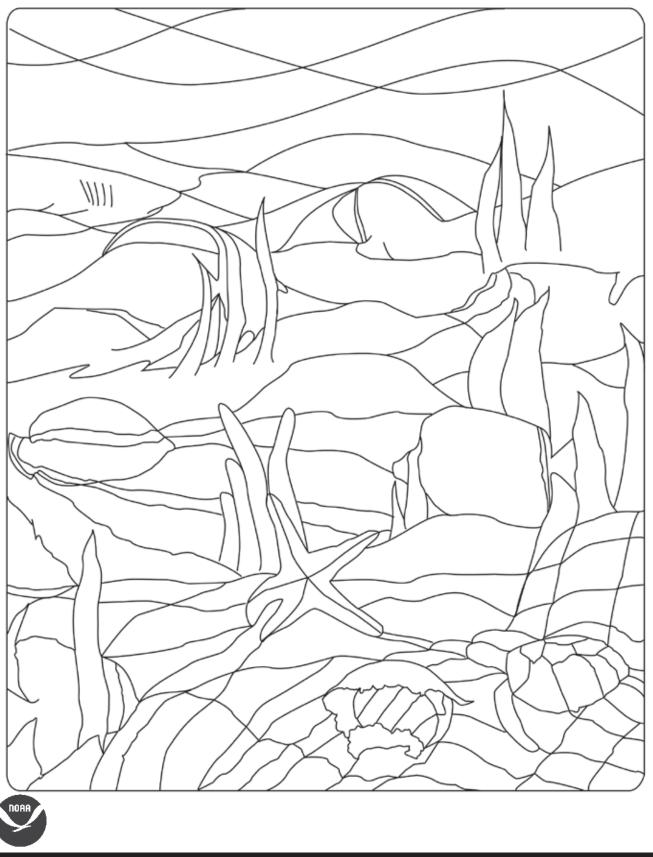




Nurse sharks, unlike most pelagic (open ocean) sharks, do not continuously move to stay alive. They are commonly found sitting on the ocean floor in and around coral reefs. They are active at night, and use the long barbels next to their mouths to sense and touch potential prey. The remora is a fish commonly found swimming alongside or attached to large fish or sharks, eating scraps of food missed by their host.

#### Hidden animals

#### Can you find the ten animals in this picture?

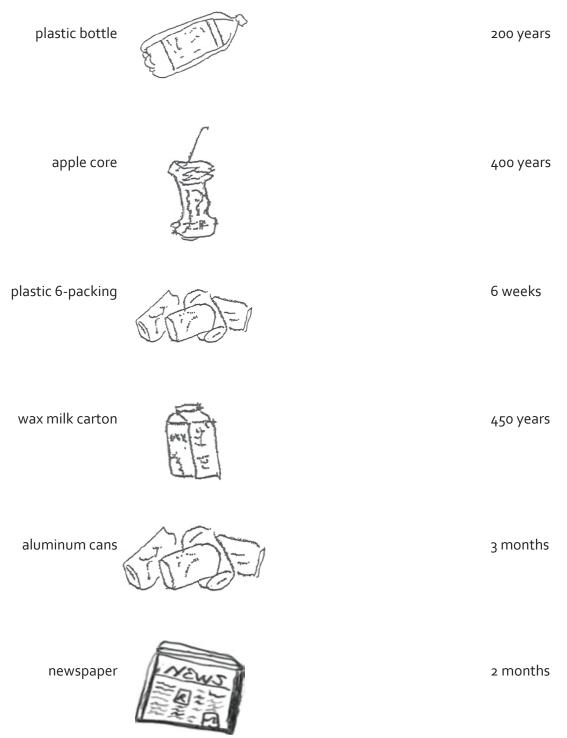


#### **Mad Lib**

1	10	19
Day of the Week	Color	Animal
2.	11.	20.
Town	Object	Size
3.	12.	21.
First name	Action	Action
4.	13.	22.
Animal	Place	Color
5.	14.	23.
Ocean name	Size	Your name
6.	15.	24.
Friends first name	Color	Machine
7.	16.	25.
Color	Ocean animals (plural)	Action
8.	17.	
Ocean animal	Color	
9.	18.	
Celebrity's name	Shape	
strangest dream. I dreamt I v	Aquarium in with was a in the (5) (8)! We ran into	My friend
we wanted to take a ride in a	submarine to see a	. We to the
sub and in no time we were a	at a part of the ocean we had nev	er seena coral reef! It looked
like a city, but u	nderwater with	. We saw a
(17) (18)	, sea turties, and a really	(20) STIGIK 1
couldn't believe my eyes! I w	as going to take a piece of	coral back home to prove
I'd been there, but	said "Stop! It is very	important that when you visit
the ocean you take only pict	ures and leave only bubbles. You	can harm the reef by touching it
or leaving trash. When you g	et home, tell all your friends how	nice it is here and that we can
help protect the ocean toget	her." Suddenly, my soscscscscscsc	ounded and I, but I
remembered 's wo	ords and couldn't wait to start hel	ping protect coral reefs and the
ocean.		NOAA

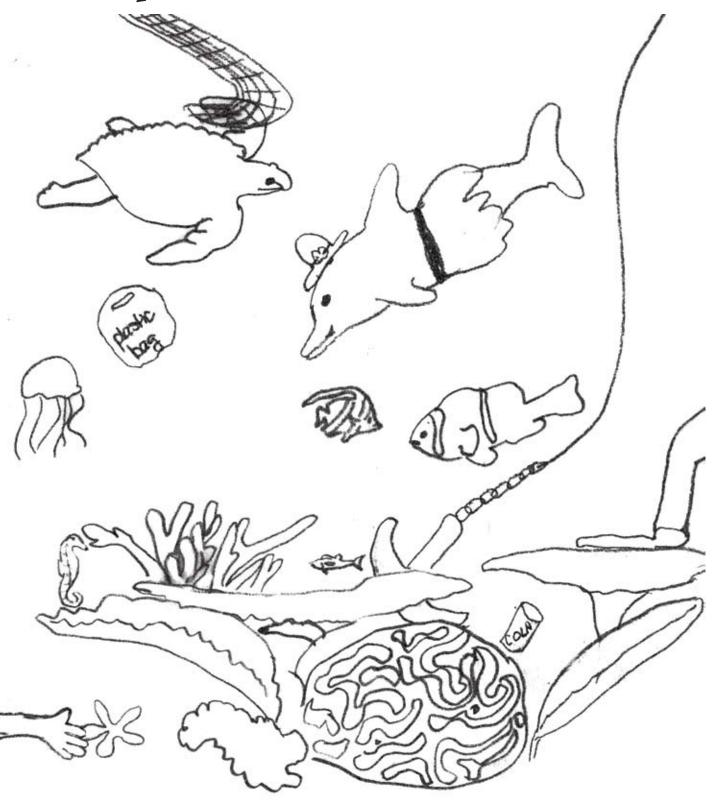
#### Marine Debris

Draw a line from the type of debris (trash) to the time it takes to decompose (go away) in the marine environment.





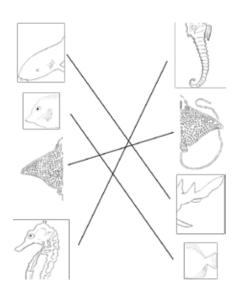
### Can you find the 8 things wrong in this picture?

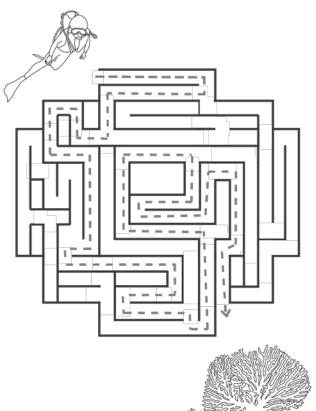




#### Answers







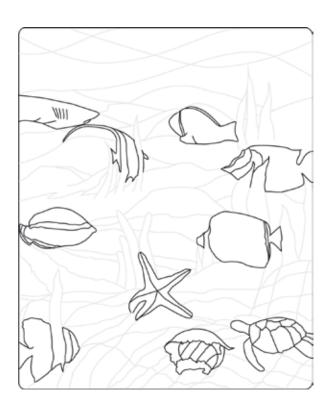


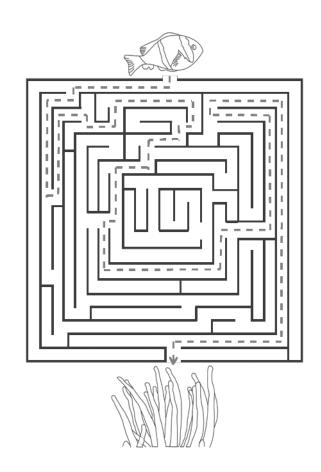


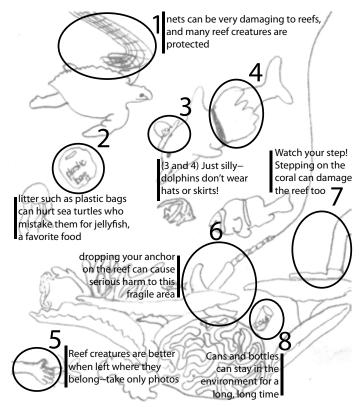
Sea horse match: #'s 3 and 5 are the same

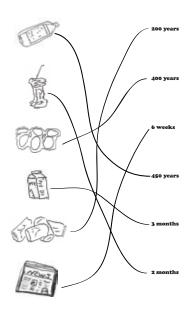
Secret Code: Decrease your trash, reduce, reuse, recycle

#### **More Answers**











#### In honor of the International Year of the Reef of 2008.

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