

LET'S GET STORM STRONG

HURRICANE PREPAREDNESS GAMES & ACTIVITIES



Harriet the hermit crab, here!
I'll be your guide through all
things storm prep.



VIRGIN ISLANDS



NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
Office of Education
Environmental Literacy Program

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VIRGIN ISLANDS



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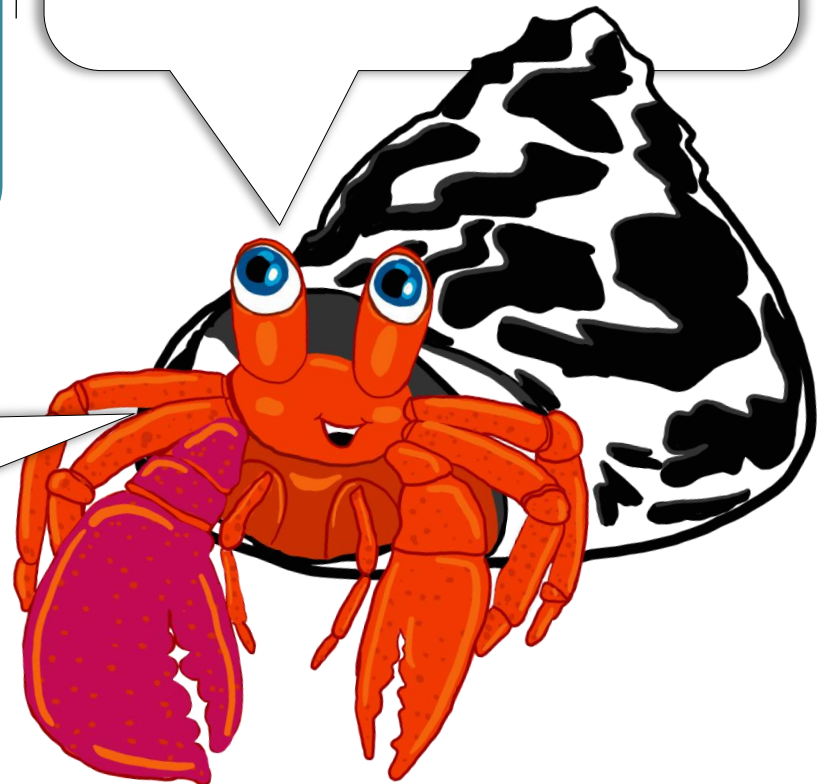
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For more great activities, information, and storm preparedness resources, visit <https://www.usvistormstrong.org/>

PSST!

P.S. On every page of this activity book, I've hidden a pair of keys. Try to find them all for a fun bonus activity!
(locations revealed in Answer Key on pg. 16)



WORRISOME WEATHER WORD WATCH

STORM VOCAB 101



LET'S FACE IT: weather can be pretty complicated, and there are lots of different words used to describe storms. I have a hard time keeping them all straight! To make things a bit easier, I've created a fun activity for us to do.

Hidden below are some basic storm vocabulary words. As you find & circle each word, take a moment to read its definition on the opposite page. You'll be a weather wordsmith in no time!

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

These hidden words are found horizontally, vertically, and diagonally. (Answers on page 16).

- | | | | | |
|--------------|-------------|-------------------------|----------------|---------------------|
| AIR PRESSURE | FLASH FLOOD | PREPARE/
PREPARATION | STORM SHUTTERS | TROPICAL DEPRESSION |
| CLIMATE | HAZARD | RADAR | STORM SURGE | TROPICAL STORM |
| CLOUDS | HIGH WIND | RADIO | THUNDER | WARNING |
| CYCLONE | HURRICANE | RAIN | TORNADO | WATCH |
| EMERGENCY | LAND FALL | SANDBAGS | TRACKING | WEATHER |
| EYE | LIGHTNING | | | |

SECRET RIDDLE OF THE SEA

WEATHER WORD DEFINITIONS



AIR PRESSURE Also known as atmospheric pressure; this is the weight of the air. Changes in air pressure caused by things like temperature & Earth's rotation are what creates weather.

CLIMATE The average of weather conditions in an area over a long period of time.

CLOUDS Millions of tiny water droplets or ice crystals floating together in the air.

CYCLONE A large system of winds that blow in a spiral around a central area. When they form in the Atlantic Ocean, cyclones are called hurricanes. In the western Pacific Ocean, they are called typhoons.

EMERGENCY An unexpected situation that calls for immediate action, or, an urgent need for help.

EYE The calm center of a cyclone, surrounded by spiraling high winds.

FLASH FLOOD Floods happen when water overflows onto dry land. Flash floods, the deadliest kind, are caused by sudden heavy rainfall, storm surge, or a combination of the two.

HAZARD A source of danger. Weather hazards are dangerous weather phenomena that threaten life and property, such as hurricanes, flash floods, high winds, tornados, earthquakes or droughts.

HIGH WIND Wind, an element of weather, is the movement of air across the Earth's surface. During a storm, winds can become unusually strong and are called high winds, defined as wind speeds of 40 mph or greater lasting for 1 hour or longer, or winds of 58 mph or greater for any duration.

HURRICANE A tropical cyclone in the Atlantic, Caribbean Sea, Gulf of Mexico, or eastern Pacific, which the maximum sustained surface wind is 74 mph or greater.

LAND FALL When the center of a cyclone crosses a coastline. Because a cyclone's strongest winds are not precisely at the center, it's possible for the strongest winds to be experienced over land even if landfall does not occur. Similarly, it is possible for a cyclone to make landfall and have its strongest winds remain over the water.

LIGHTNING Electricity released from the Earth's atmosphere during thunderstorms.

PREPARE /PREPARATION The action or process of making ready in advance. Hurricane preparation involves many steps to prepare your home, your supplies, your work, and your family.

EXTRA CREDIT
If you see a word you don't know, mark it with a ★! Then come back to this page again to study up on the new terms.



RADAR A system that uses waves of energy to sense objects. Radar can find out the position and speed of far away objects, such as storm clouds, so it is important for storm-tracking.

RADIO A way of sending sounds or other information through the air. Radio is an important way to get information before, during and after a storm.

RAIN The liquid form of water that falls from the sky in drops.

SANDBAGS A bag made of sturdy material filled with sand or dirt that is used for flood control or prevention.

STORM SHUTTERS Sturdy window coverings used to protect houses from damage caused by storms.

STORM SURGE Large waves created by the wind of a cyclone, which can rise up to 20 ft above normal height, creating flooding hazards for coastal communities.

THUNDER A loud sound created when lightning strikes, rapidly heating and expanding the air around it.

TORNADO A column of powerful rotating winds which reaches from a cloud down toward the ground. The winds of a tornado are the strongest on Earth, reaching up to 300 mph.

TRACKING The use of satellites, airplanes, and radar to follow and predict the path and intensity of a storm. This is a key process for storm safety that helps warn people in advance when a hurricane is headed their way.

TROPICAL DEPRESSION A tropical cyclone in which the maximum sustained surface wind is 38 mph or less.

TROPICAL STORM A tropical cyclone in which the maximum sustained surface wind ranges from 39 to 73 mph.

WARNING A warning is used when a hazardous weather event is occurring, is about to occur, or has a very high probability of occurring. A warning is used for conditions posing a threat to life or property.

WATCH A watch is used when the risk of a hazardous weather event has increased, but its occurrence, location, and/or timing is still uncertain. It is used to give lead time to those who need to start their preparation plans.

WEATHER The daily state of the atmosphere, or air, in any given place.

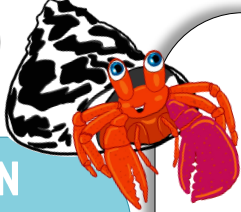
SECRET RIDDLE OF THE SEA

Unscramble the highlighted letters in the text above to answer this riddle:

What kind of shorts do clouds wear?



HURRICANE CATEGORIES



If you have ever listened to the news during hurricane season, I bet you've heard storms described by different numbered categories. But what do those categories mean?

Hurricane Categories are based on something called the **SAFFIR-SIMPSON HURRICANE WIND SCALE**. That's a mouthful! So what is it?

Basically, it's a scale based on a hurricane's **MAXIMUM SUSTAINED WIND SPEED** that estimates potential wind damage & impacts. In general, damage rises by about **4X** for every category increase. *(NOTE: this scale doesn't factor in other potential hurricane-related impacts, like storm surge, floods, or tornadoes).*

INSTRUCTIONS | Lets put this new knowledge to work. Help me **CATegorize** each of the **PURRicanes** below but counting the number of cats stuck in it. Each cat represents 20 miles per hour (MPH) wind speed. Use the **Saffir-Simpson Hurricane Wind Scale** to the left to define each storm. I've completed the first one below as an example. *(Answers on page 16).*

SAFFIR-SIMPSON HURRICANE WIND SCALE

TROPICAL DEPRESSION
< 39 MPH



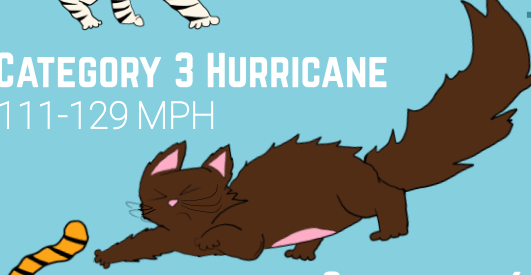
TROPICAL STORM
39-73 MPH

CATEGORY 1 HURRICANE
74-95 MPH



CATEGORY 2 HURRICANE
96-110 MPH

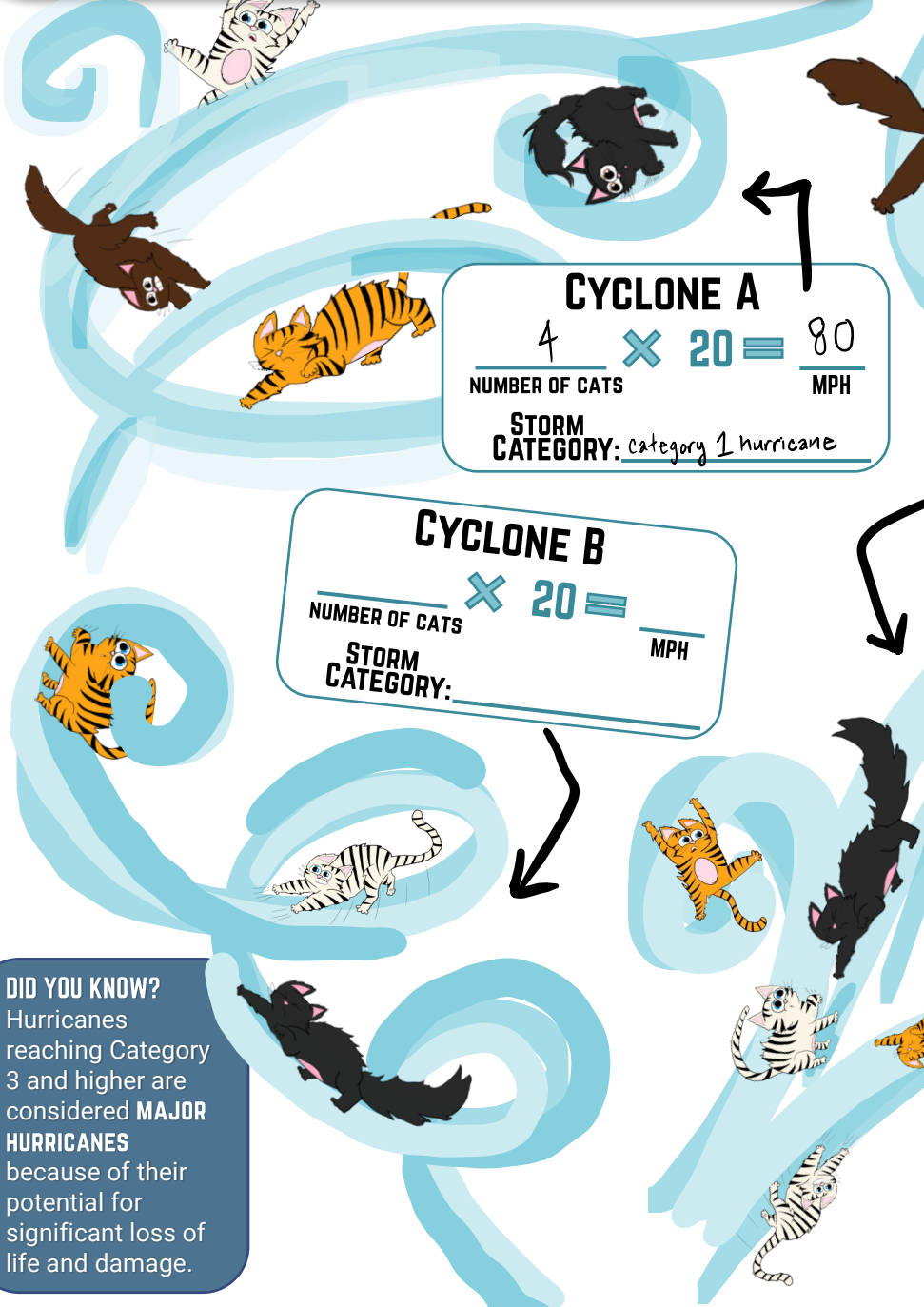
CATEGORY 3 HURRICANE
111-129 MPH



CATEGORY 4 HURRICANE
130-156 MPH



CATEGORY 5 HURRICANE
>157 MPH



CYCLONE A

$4 \times 20 = 80$

NUMBER OF CATS MPH

STORM CATEGORY: category 1 hurricane

CYCLONE B

$\times 20 =$ MPH

NUMBER OF CATS

STORM CATEGORY: _____

DID YOU KNOW?
Hurricanes reaching Category 3 and higher are considered **MAJOR HURRICANES** because of their potential for significant loss of life and damage.

LEARN THE SAFFIR-SIMPSON WIND SCALE

HAZARD DICTIONARY
Maximum Sustained Wind Speed [noun]
Measured 10 feet above the ground, this is a tropical cyclone's average wind speed over a period of one minute.

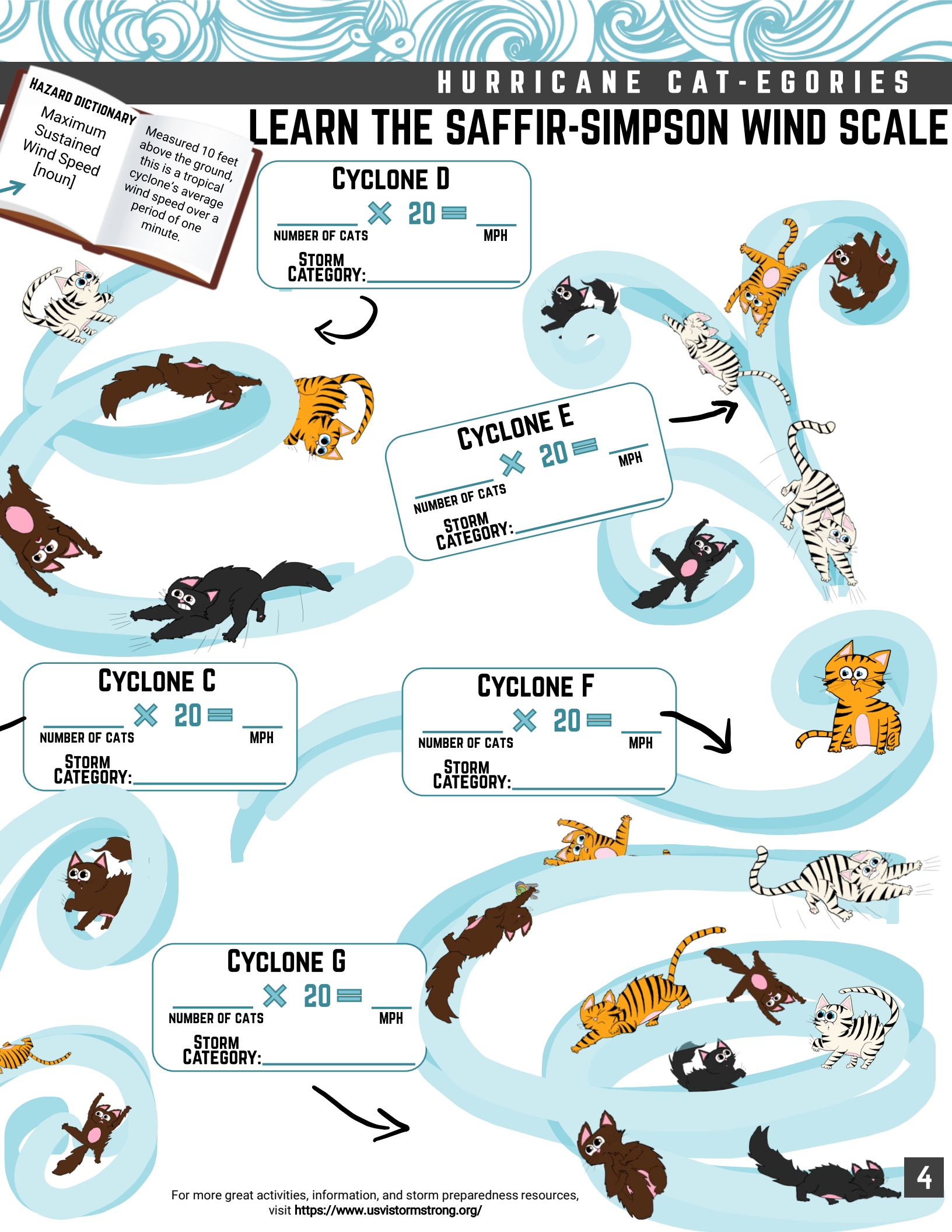
CYCLONE D
 $\underline{\hspace{2cm}} \times 20 = \underline{\hspace{2cm}}$ MPH
NUMBER OF CATS
STORM CATEGORY:

CYCLONE E
 $\underline{\hspace{2cm}} \times 20 = \underline{\hspace{2cm}}$ MPH
NUMBER OF CATS
STORM CATEGORY:

CYCLONE C
 $\underline{\hspace{2cm}} \times 20 = \underline{\hspace{2cm}}$ MPH
NUMBER OF CATS
STORM CATEGORY:

CYCLONE F
 $\underline{\hspace{2cm}} \times 20 = \underline{\hspace{2cm}}$ MPH
NUMBER OF CATS
STORM CATEGORY:

CYCLONE G
 $\underline{\hspace{2cm}} \times 20 = \underline{\hspace{2cm}}$ MPH
NUMBER OF CATS
STORM CATEGORY:



MATCH IT UP

HURRICANE HAZARDS LOW-DOWN



HURRICANES COME WITH LOTS OF RISKS! So you and your family can safely weather a storm, it's important to learn what these risks are, and the ways you can prepare for them. Read about each of the hurricane hazards below on the left and draw a line to match it up to the safety precautions and preparation steps that apply to it on the right.

(Answers on page 16).



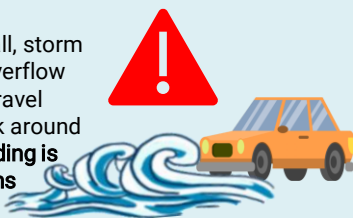
STORM SURGE

The abnormal rise of water generated by a storm's winds. Storm surge can result in large loss of life and cause massive destruction along the coast. **This hazard is the leading cause of hurricane related deaths and damage in the United States.**



FLOODING

Floods happen when heavy rainfall, storm surge, or both, causes water to overflow onto dry land. Flood waters can travel several miles inland and can stick around for days after a storm ends. **Flooding is the second leading cause of deaths from tropical cyclones.**



HIGH WINDS

Winds from a hurricane can destroy buildings & homes. **Signs, roofing material, and other items left outside can become flying missiles during hurricanes.**



TORNADOS

Tornados are columns of powerful rotating winds which reach from a cloud down toward the ground. **The winds of a tornado are the strongest on Earth, reaching up to 300 mph.** Tornados are common when hurricanes move onshore. They typically occur in rain bands away from the center of the storm.



RIP CURRENTS & WAVES

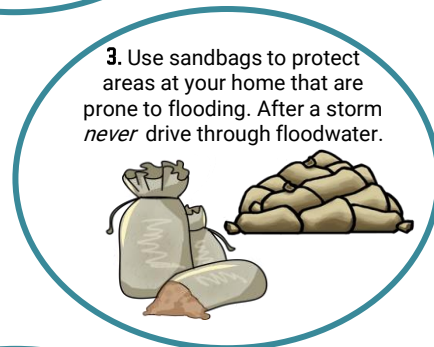
Even when the storm is more than a 1,000 miles offshore, dangerous waves produced by a tropical cyclone's strong winds can be hazardous! These waves can cause deadly rip currents, wash away beach sand, and damage structures along the coastline.



1. Trim loose tree branches around your home, bring in outdoor furniture & items, board up windows.



2. If you live close to the coast, shelter somewhere inland for the storm. Don't go swimming before or after a storm.



3. Use sandbags to protect areas at your home that are prone to flooding. After a storm never drive through floodwater.

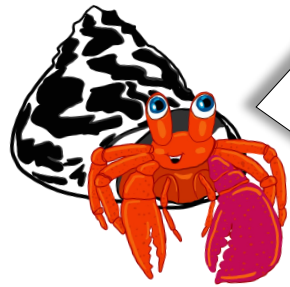


4. If you live somewhere that will be affected by this, stay in the highest portion of your house, away from windows. Consider evacuating to a community shelter before the storm.



5. If one of these is passing over, stay away from windows and doors. If possible, shelter on the lowest level of your home under a table or mattress for added protection.

HURRICANE HISTORY



Hurricanes in the Virgin Islands are nothing new! Storms of all categories have impacted this region over the years. Some of those storms have had greater impacts than others.

SO, IT'S TIME FOR A HISTORY LESSON! Understanding the impacts of previous storms can help us to better prepare for future disasters. Below are a few high-profile storms that have impacted the USVI. Read the details of the storm, then draw a line to connect it to the year that it occurred. I've completed the first one for you! *Hint: if you don't know when a storm happened, search the web or ask a family member –they might even have some stories to share if they experienced that storm!*

Want to learn more about past storms? Check out more than 150 years of history on NOAA's Historical Hurricane Tracker at <https://coast.noaa.gov/hurricanes/>. (Answers on page 16).

A. UNNAMED STORM

NICK-NAMED "OKEECHOBEE HURRICANE"

This is the only other category 5 storm to come within 10 miles of any U.S. Virgin Island. This storm occurred before NOAA began assigning storms official names. It followed a very similar path to Hurricane Maria! Although the death toll in the USVI alone is not reported, there were at least 4,079 deaths due to the storm across its path.

B. HURRICANE IRMA

Passing 14 miles north of St. John & St. Thomas, Irma devastated the USVI as a category 5 hurricane. It caused upwards of \$1.1 billion in damages. St. John ferry systems were disabled as a result of the storm, leaving many stranded. Many residents were left without power for weeks to months following this storm.

C. HURRICANE HUGO

Hugo was a category 4 storm when it made landfall on St. Croix, causing catastrophic damage. On St. Croix 90% of buildings were damaged; of those, 70% were destroyed, & 75% lost their roofs. 3 people died and 3,500 were left homeless.

D. HURRICANE MARIA

Occurring just 2 weeks after Hurricane Irma, Maria passed 9 miles south of St. Croix as a second category 5 hurricane in one season. Maria damaged or destroyed 70% of the buildings on St. Croix. It took 4 months to restore most of the power grids across the 3 U.S. Virgin islands following Irma & Maria.

E. HURRICANE MARILYN

According to NOAA, Marilyn was a Category 2 storm when it passed within 2 miles southeast of St. Thomas. This storm was responsible for at least 12 deaths and \$2 billion in damages in the USVI. On St. Thomas, 80% of homes and businesses were damaged, and 11,000 people were left homeless.

F. HURRICANE LENNY

Nicknamed "wrong way Lenny" because, unlike most storms, it approached from west to east as it came within 15 miles of the south side of St. Croix where it caused extreme beach erosion. In some places around Frederiksted, 20 ft storm surge waves left up to 6.5 ft of sand on coastal roads, as far as 100 ft in from the ocean!

1928 1989 1995 1999 2017

PICTURE CROSSWORD

PREPAREDNESS SUPPLIES

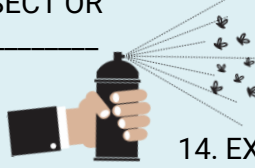


A C R O S S

1. CARD OR BOARD _____



2. INSECT OR BUG _____



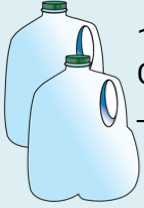
6. NON-PERISHABLE OR CANNED _____



10. WORK _____



11. SEVERAL GALLONS OF _____



12. _____ SANITIZER

14. EXTRA _____



15. A FEW DAYS OF CLEAN _____



19. MONEY OR _____



16. CAN _____



18. LANTERNS OR _____



An important part of hurricane season prep is gathering the supplies you need to weather a storm.

And the first step to doing that is creating a supply checklist of all the things you should have on hand for an emergency.

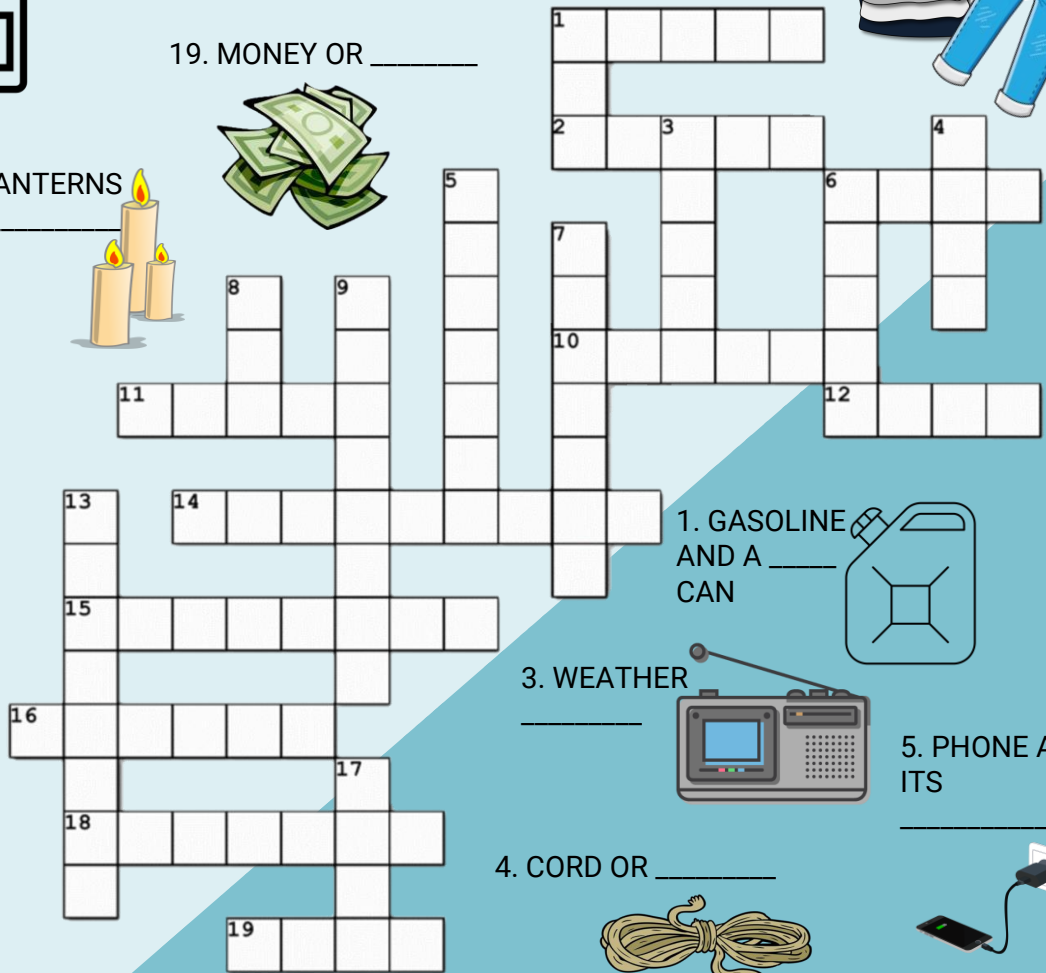
Everyone's situation is unique and changes over time, so you should take time to do this every year!

To get an idea of some items you might put on your list, complete this picture crossword. When you're done, use the next page to write out a list for your family this year.

(Answer on page 16).



D O W N



1. GASOLINE AND A CAN _____



3. WEATHER _____



5. PHONE AND ITS _____



4. CORD OR _____



6. _____ LIGHT



7. MATCHES OR A _____



8. KIBBLE OR _____ FOOD



13. DRY BAG OR _____



17. HOUSE AND CAR _____



SUPPLY CHECKLIST



Use this page to create your own checklist. I've got you started with the basics. As you fill this out, think outside the box about your family's unique needs.

If you need more inspiration, check out the USVI Storm Strong Team's supply checklist: <https://www.usvistormstrong.org/s/Storm-Strong-Hurricane-Checklist.pdf>

or VITEMA's website: <http://vitema.vi.gov/ready/build-a-kit>



MY HURRICANE SUPPLY CHECKLIST

- WATER
- FOOD
- IMPORTANT DOCUMENTS

TIP: you should stock up at least 1 gallon per person per day for at least 10 days



TIP: Try to have at least enough for at least 10 days. Remember:

- ✓ Get non-perishable canned food & juice in case you lose power
- ✓ Don't forget the snacks!
- ✓ You might need different food for infants, elderly, & pets.



TIP: Help your family gather important documents (insurance, medical records, social security cards, etc.) and keep them in a waterproof container during a storm.

I SPY HURRICANE SUPPLY

GATHER YOUR PREPAREDNESS MATERIALS



Now that you have your supply list together, it's time to gather everything before the start of hurricane season! Can you find the items in the area below according to the key at the bottom of the page? If it helps, use a marker to cross them out in the collage as you find each item. Be careful: don't get distracted by things you don't need like perishable foods or other non-essentials!



I SPY HURRICANE SUPPLY

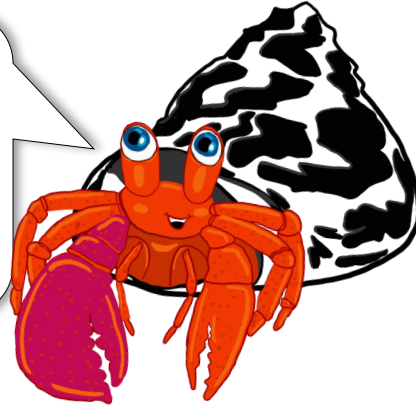
- | | | | | | | |
|-----|-----|------|-----|-----|-----|-----|
| = 7 | = 8 | = 10 | = 3 | = 4 | = 6 | = 5 |
| = 8 | = 4 | = 6 | = 5 | = 2 | = 4 | = 9 |
| = 3 | = 5 | = 4 | = 4 | = 2 | = 7 | = 4 |

SECRET CODE

BE A DANGER DETECTIVE!

Part of being prepared means having your supplies in place before a storm is approaching. Put on your detective hat to unlock the secret message below for a helpful reminder to get you prepared for the dangers of hurricanes.

(Answer on page 16)



	= A		= J
	= B		= N
	= C		= O
	= E		= R
	= G		= S
	= H		= U
	= I		

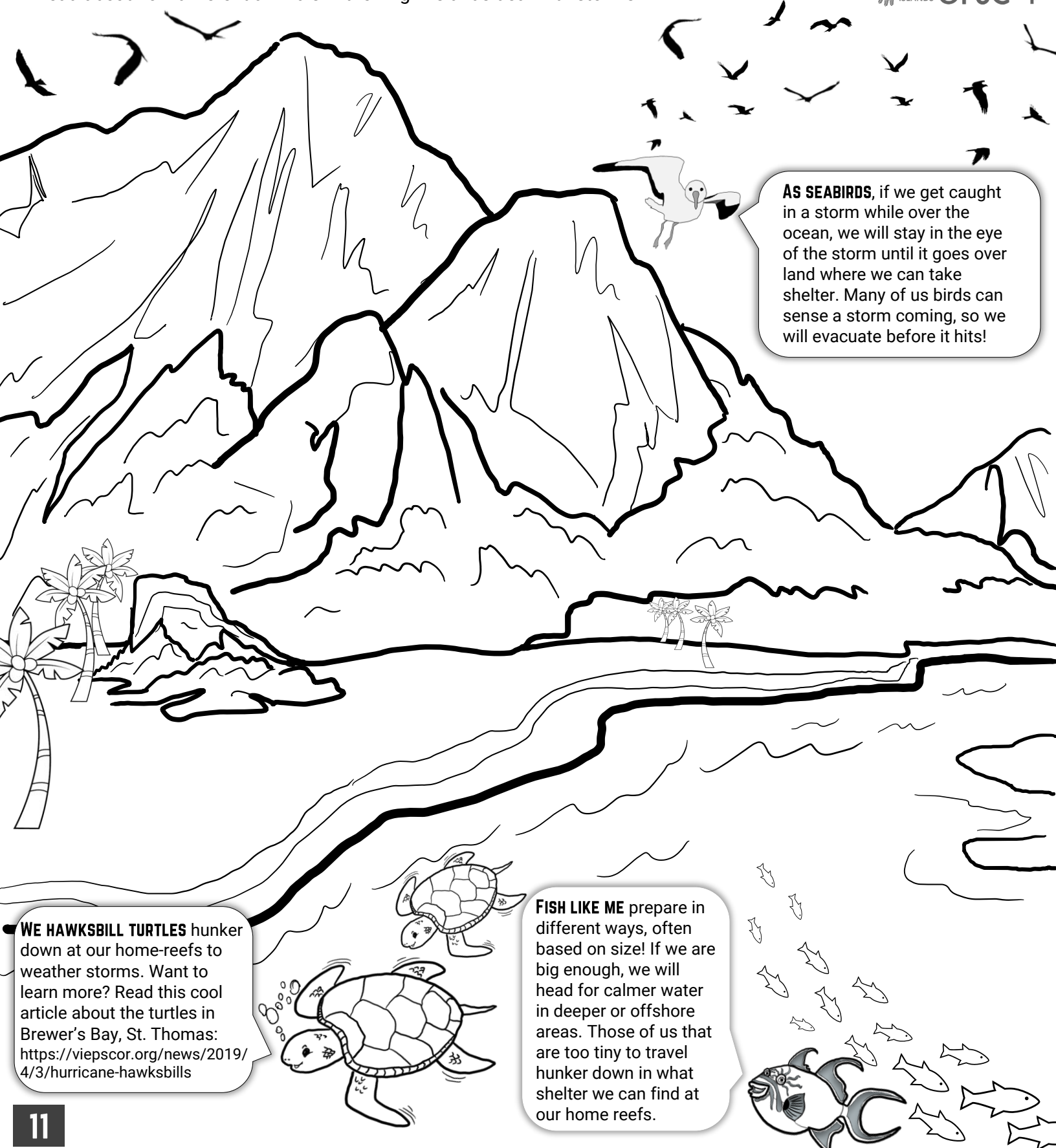
LETTER CODE



ISLAND COLORING ACTIVITY

HOW DOES WILDLIFE GET READY FOR A STORM?

Get out your coloring supplies and bring this island to life! As you color, read about how different animals in the Virgin Islands deal with storms.



AS SEABIRDS, if we get caught in a storm while over the ocean, we will stay in the eye of the storm until it goes over land where we can take shelter. Many of us birds can sense a storm coming, so we will evacuate before it hits!

WE HAWKSBILL TURTLES hunker down at our home-reefs to weather storms. Want to learn more? Read this cool article about the turtles in Brewer's Bay, St. Thomas: <https://viepscor.org/news/2019/4/3/hurricane-hawkbills>

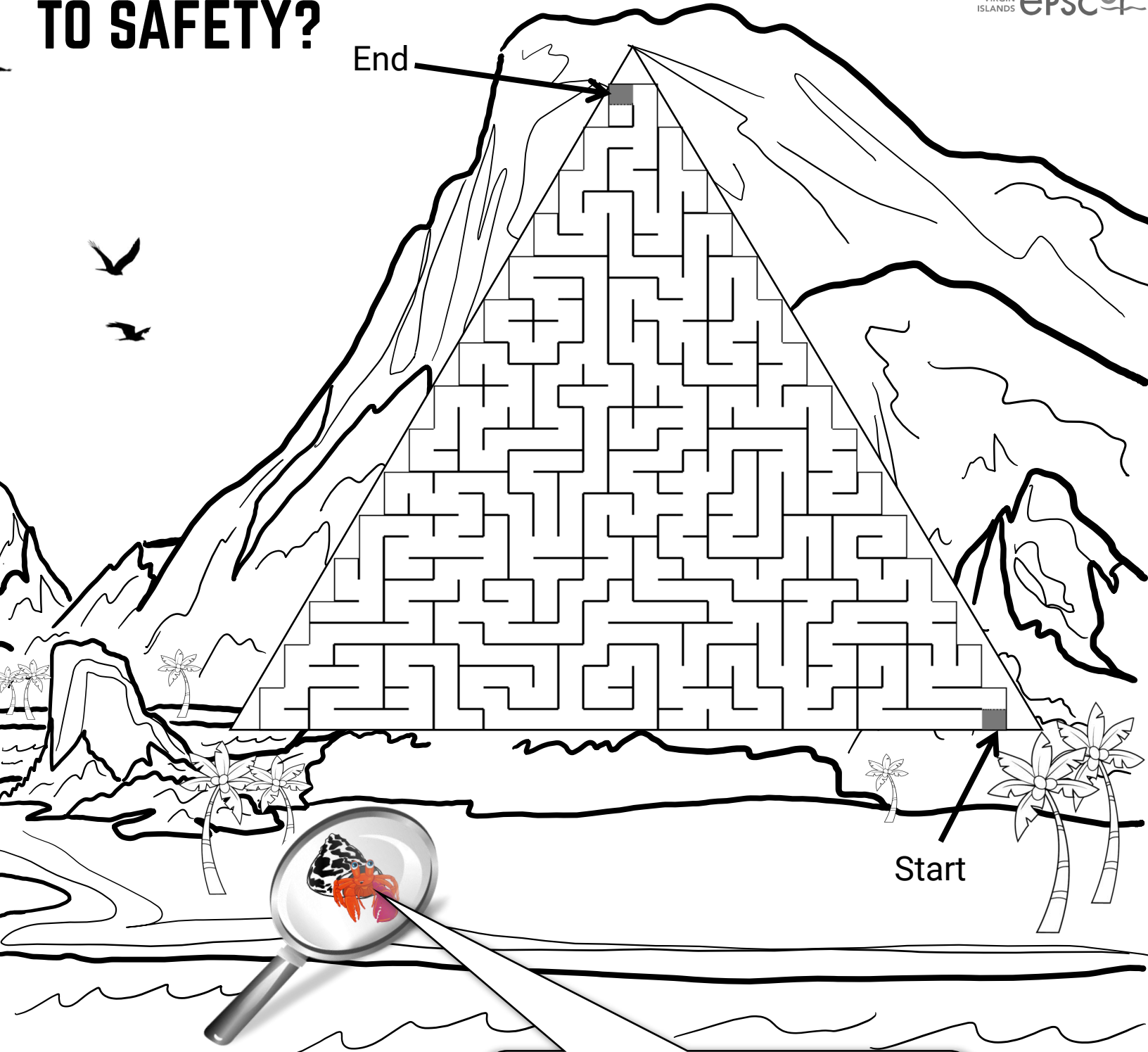
FISH LIKE ME prepare in different ways, often based on size! If we are big enough, we will head for calmer water in deeper or offshore areas. Those of us that are too tiny to travel hunker down in what shelter we can find at our home reefs.

WILDLIFE STORM PREPARATION MAZE

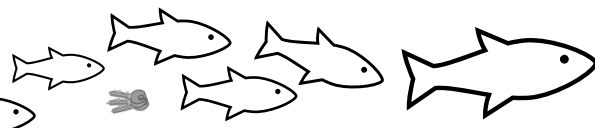
CAN YOU HELP HARRIET GET TO SAFETY?



VIRGIN ISLANDS epscor



HELP! A storm is on its way and I need to get ready. When hermit crabs like me sense a storm approaching, we move to higher ground. Complete the maze up the mountain to lead me to safety! *(Answer on page 16)*



PERILOUS PRECIPITATION PATHWAYS

GREEN INFRASTRUCTURE: A RUN-OFF RACE!

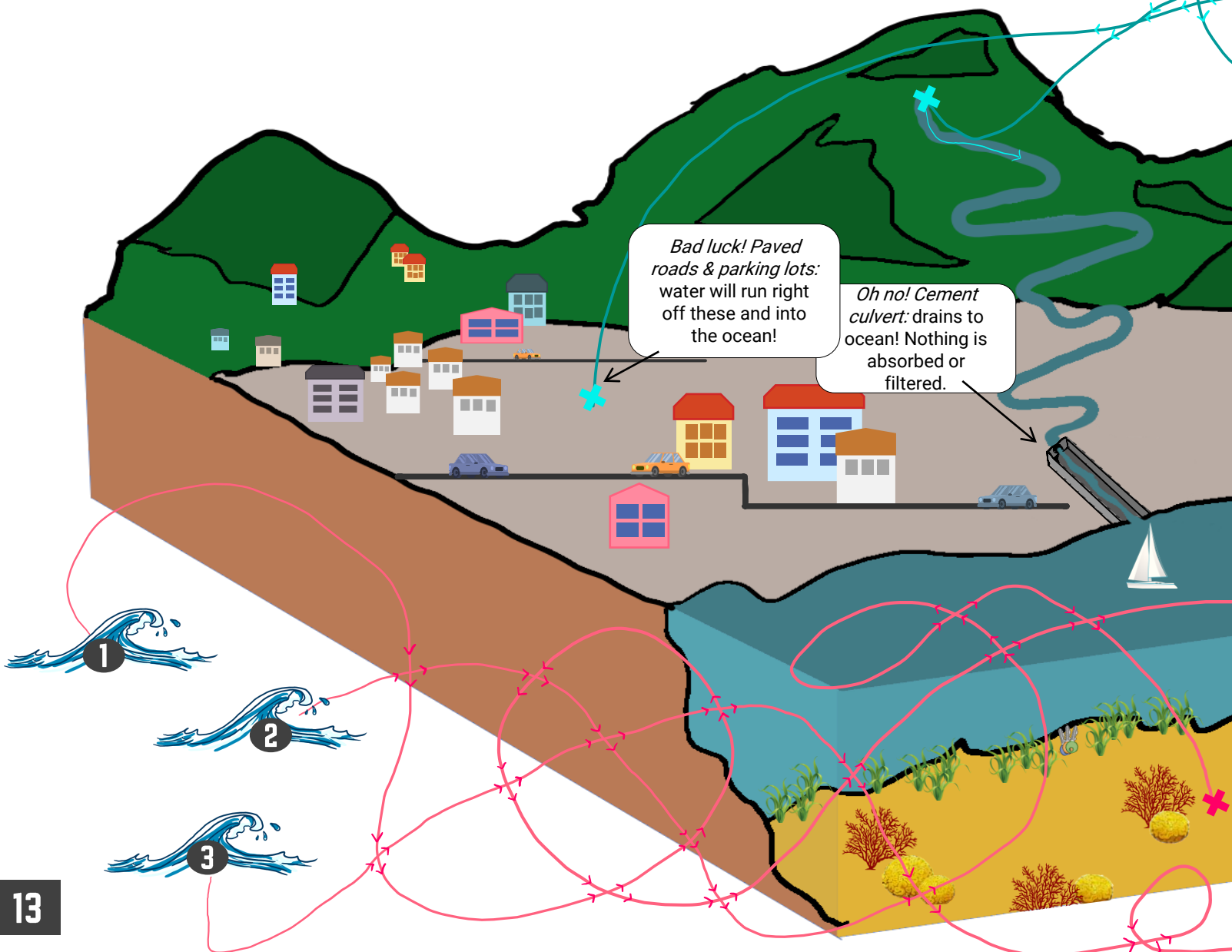


TYPICALLY, A HURRICANE = LOTS OF RAIN OVER A SHORT PERIOD OF TIME. SOMETIMES SEVERAL INCHES WORTH!

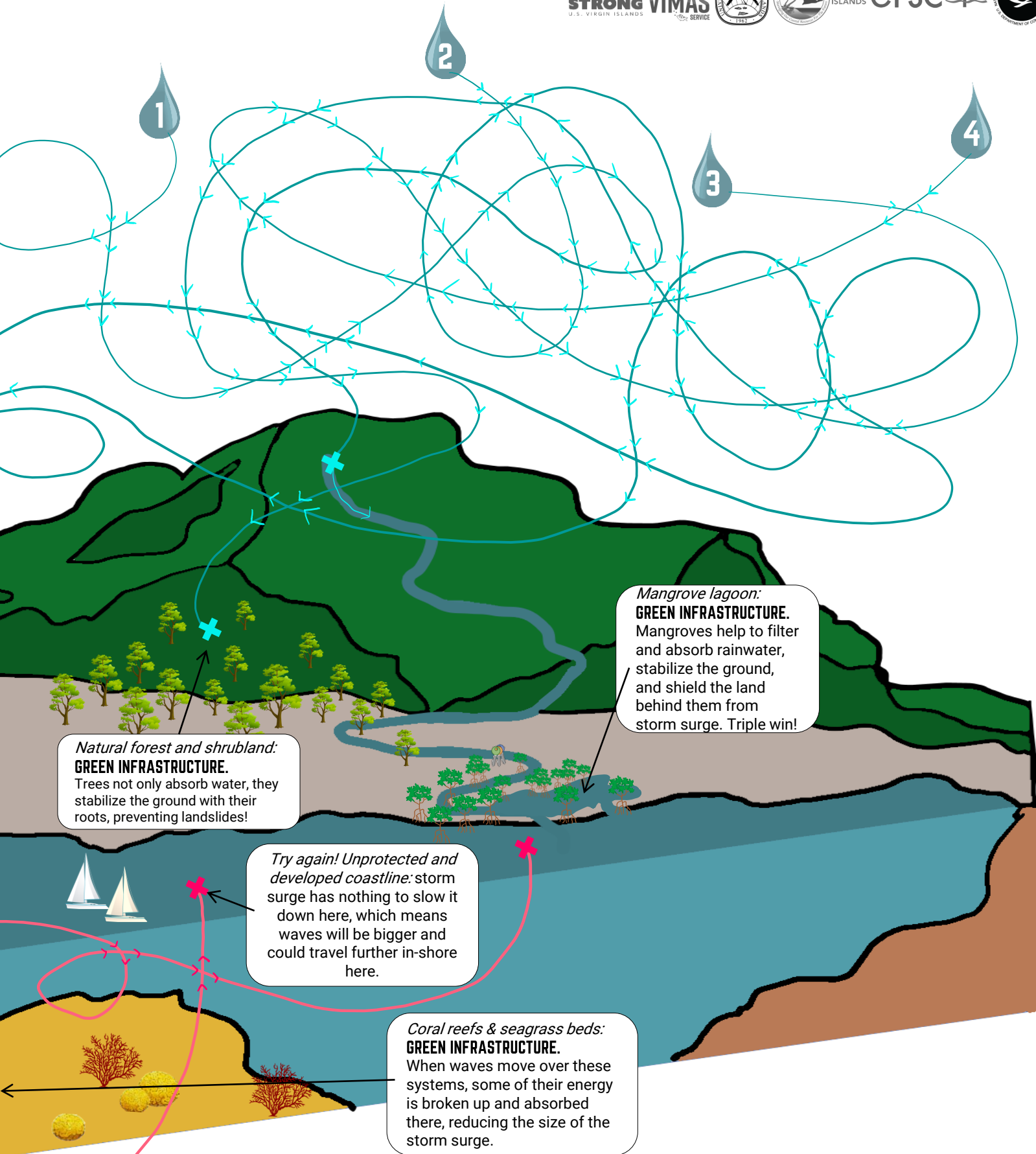
All that water has to go some place, so where does it end up? Well, that all depends on where the rain runs-off. Rain that falls onto paved surfaces like parking lots, rooftops, or roads can quickly build up and be fast-tracked to the ocean. But that's not necessarily a good thing! This can lead to flooding, erosion, and it can funnel pollutants picked up along the way into our coastal environments.

On the other hand, rain that falls on green spaces, like forests, gardens or grassy fields, can be absorbed by the plants there. That means less dangerous flooding & pollution! Other nature along the coast, like coral reefs, seagrass beds, and mangrove forests also protect us during storms by lowering storm surge. **WHEN HUMANS HARNESS NATURE FOR HELP SUCH AS STORM WATER MANAGEMENT IT'S CALLED "GREEN INFRASTRUCTURE."**

INSTRUCTIONS | We are going to learn about green infrastructure by having a run-off race to the coastline! Follow the path of each rain drop or storm surge wave to see where it ends up. When lines overlap, follow the arrows. *But here is the catch:* in this race, you win by losing! Mark the races that get blocked by green infrastructure with a ☆! (Answers on page 16).



PERILOUS PRECIPITATION PATHWAYS



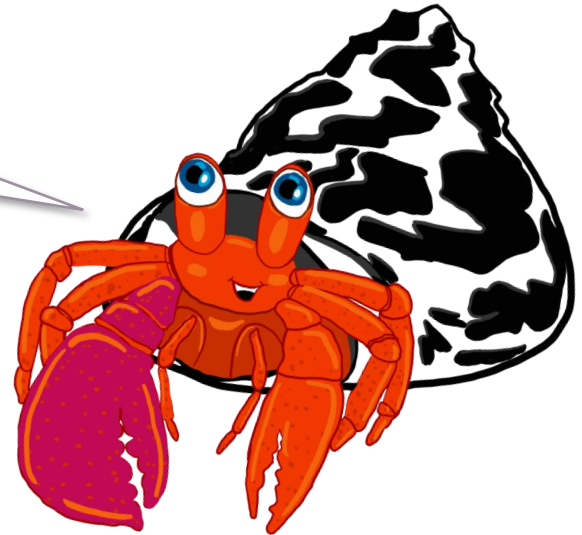
OTHER RESOURCES




VIRGIN ISLANDS




Looking for more things to do?
Check out these resources!




 The USVI Storm Strong Program website has lots of things for you to do: a drawing activity, a computer game, you can even submit your family's recipes to the first ever USVI hurricane cookbook. There's even more, so go explore!


 <https://www.usvistormstrong.org>

 The National Weather Service has a fun new friend, Owlie Skywarn, who's put together some great weather learning activities for you:


 <https://www.weather.gov/owlie/>

 The Virgin Islands Territorial Emergency Management Agency (VITEMA) has lots of things for you to do! See their resources on building an emergency kit, read about preparing for other emergencies, and even have your family sign up for phone or email alerts when the USVI faces potential hazards:

 <https://vitema.vi.gov/>


 Do you need a hurricane preparedness guide? I love this one! It has lots of details on what to do before, during and after a storm; strategies to take care of your mental health, insurance information for your family, even tips on preparing for your pets:

 <https://www.magellanassist.com/hurricaneguide.pdf>

 Here is another great guide made by the Federal Emergency Management Authority (FEMA) on ready.gov. And check out their website for more information too:

 <https://www.ready.gov/collection/hurricane-documents> (click the 'How to Prepare for a Hurricane' link)

 <https://www.ready.gov/hurricanes>

 Looking for another activity book like this one? Challenge yourself to learn all about Marine Debris in the USVI with this book (click the 'Understanding Marine Debris – U.S Virgin Islands Edition' link):

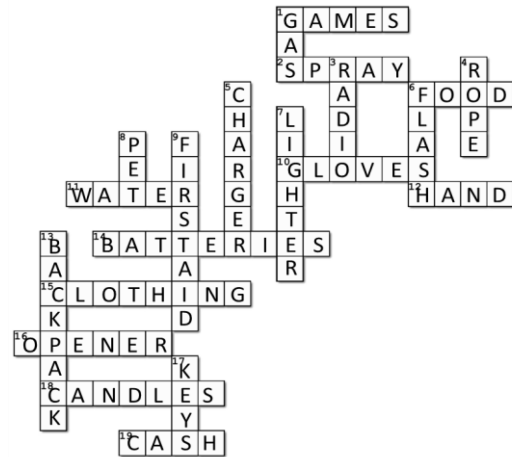
 <https://marinedebris.noaa.gov/activities-and-curricula>



Worrisome Weather Word Watch (Page 1)

GQBQYQFGIXMNZRH IKVRMYSQIC
 RAZXROGXHGDCLOUDS IERAIL
 YITROPICALSTORMIRWEATHERK
 VUFHEVXNOI LGHTNINGWAZLEJA
 OYYUPTORNADOWEBHAI GAYVSUJ
 AEZRWRHZMBHSTORMSHITTERSF
 OKGRCHEAQVXAZNJT TAVPWCHLG
 AQYIAKGPZKCJGFZZRDNEMOHEV
 UXBCEDKNAADDOYLWHAYDIYJYC
 SZXAETAADRRHPJCAPBCZBUMEL
 TMRNMZIRHVEDZMHXSXRKNAMSI
 OHAEPHMXRYPVOOJHHRYSISGHM
 RFXZRHLPCLNIRQYEWCFYUNOSA
 MTROPICALDEPRESSIONLYWGGT
 SUFLWGOIZHEPDNPXPJZHOCXYE
 UVC AVHURZEAYCXMAPITOE OVMB
 RWYDJWQP VQOCOJIURIOHFZBIN
 GMC AFIORCNRYLHTFYA IJUEHMM
 FVLGGNCEXLBBOYCPZLR TTHNFIB
 SBOQCORSV L ANDEAII GWIGMDZC
 VRNHJEGSKMXJBEYYRBLKQZQES
 QAEYUTOUULSWLRMHZARCLNADR
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 HOIKMTNOSASZWARNINGOOUVVVW

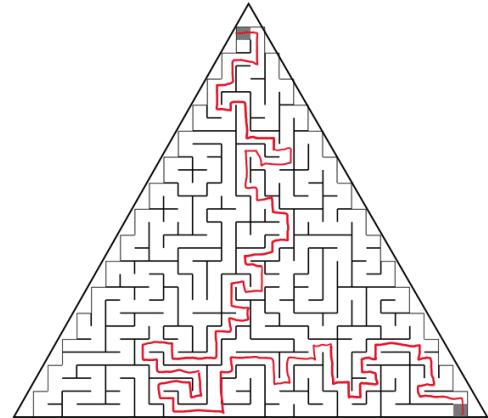
Picture Crossword (Page 7)



Secret Code (Page 10)

HURRICANE SEASON BEGINS JUNE 1!

Wildlife Storm Prep Maze (Page 12)



Perilous Precipitation Pathways (Pages 13 & 14)

Green Infrastructure: Surge #1 & #2, Rain #1 & #3

Hidden Keys (All Pages)

- 1: in Harriet's claw
- 2: in the wave to the left of the word "RAIN"
- 3: in the paw of the TROPICAL STORM cat in the scale key
- 4: in the paw of one of the brown cats in CYCLONE G
- 5: in the tornado
- 6: in the blue swirled header at the top of the page
- 7: in the clue for #17
- 8: in front of the grocery box
- 9: all throughout the seek and find
- 10: under the line beneath number 1 in the message
- 11: next to the logos at the top right
- 12: swimming with the fish (bottom right)
- 13: in the seagrass bed
- 14: in the mangrove lagoon
- 15: in the blue textbox at the bottom of the page

Secret Riddle of the Sea (Page 2)

RIDDLE ANSWER: THUNDER-PANTS!

Match It Up (Page 3)

- STORM SURGE: 4
- FLOOD: 3
- HIGH WINDS: 1
- TORNADOS: 5
- RIP CURRENTS & WAVES: 2

Blast From The Past (Page 4)

A: 1928, B: 2017, C: 1989, D: 2017, E: 1995, F: 1999

Hurricane CAT-egories (Pages 5 & 6)

- CYCLONE A= CATEGORY 1 HURRICANE
- CYCLONE B= TROPICAL STORM
- CYCLONE C= CATEGORY 4 HURRICANE
- CYCLONE D= CATEGORY 2 HURRICANE
- CYCLONE E= CATEGORY 3 HURRICANE
- CYCLONE F= TROPICAL DEPRESSION
- CYCLONE G= CATEGORY 5 HURRICANE