

Scope Phenomenon

It's a Twister!

1.	What kind of severe weather is shown in the video? Why is it dangerous?
2.	What other kinds of severe weather can affect Tennessee?
3.	What can people in Tennessee do to prepare for severe and dangerous weather?
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Emergency Preparation Kit:Sliding Scale



A flashlight and extra batteries should be in a kit. They help when power is out after a storm or tornado.





Water and safe food should be in a kit. They help when people are stuck at home during long weather events.



A teddy bear should be in a kit. It helps keep you warm in a blizzard.

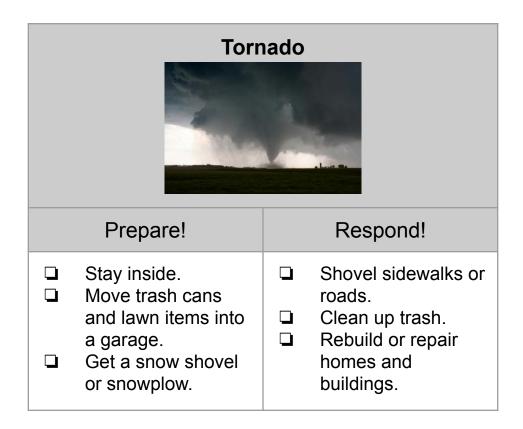


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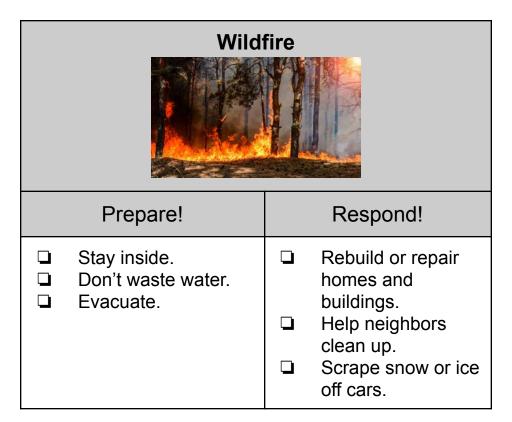
Getting Ready for the Storm

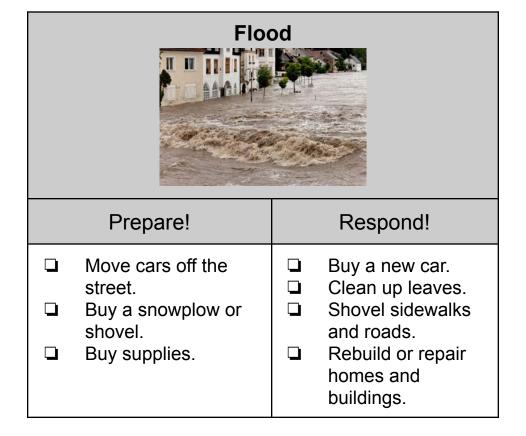
Procedure

Check off how your group decides to prepare and respond to each weather hazard.

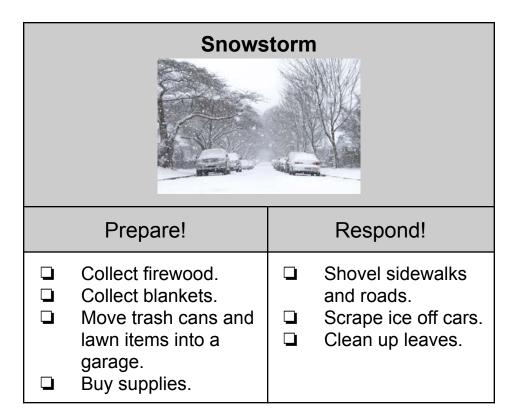












Thunderstorm Prepare! Respond! Stay inside. Scrape ice off cars. Put batteries in Buy a new car. flashlights. Clean up leaves. Collect firewood.



Hazardous Weather Cards

Tornado





Flood





Wildfire





Thunderstorm





Snowstorm





Drought

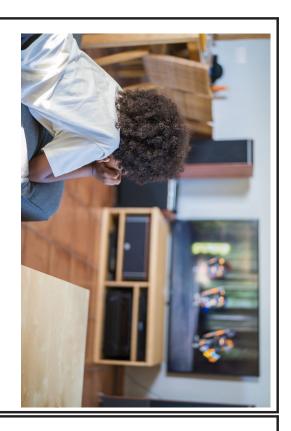




Weather Preparation Pictures



Prepare! Stay inside.



Prepare! Buy supplies.



Prepare! Don't waste water when using the sink.





Weather Preparation Pictures

Prepare! Move cars out of the street.



Prepare! Move trash cans and lawn items into the garage.



Prepare! Get a snow shovel or snowplow.



Prepare! Collect firewood.





Weather Preparation Pictures







Weather Response Pictures

Respond! Use a watering can instead of a hose to conserve water.



Respond! Rebuild or repair homes and buildings.



Respond! Clean up trash, leaves, and branches that blew around.



Respond! Remove snow from sidewalks and streets.





Weather Response Pictures

Respond! Buy a new car.



Respond! Help neighbors clean up.



Respond! Shovel sidewalks and roads.



Respond! Clean up leaves that have fallen.





Meteorologist

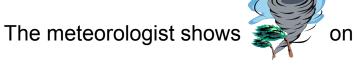




Name:	Date:	

Weather Icons Claim-Evidence-Reasoning

Pro	m	pt
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What type of weather is predicted?

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Ы	а	ı	m	-

Ciai	m:		
Che	ck the	e corre	ect sentence.
			The meteorologist predicted a tornado.
			The meteorologist predicted a blizzard .
Evic	lence	9:	
Wha	ıt cou	ıld kee	ep you safe? Draw a picture to show how to stay safe.
			Waiting by the window to watch the tornado
			Staying inside, away from doors and windows



Weather Icons

Student Rubric

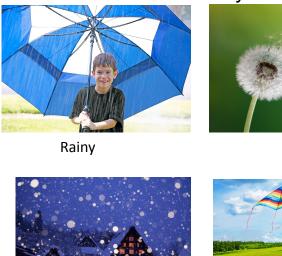
	3	2	1
Claim	My claim was correct.	I made a claim, but it was	I did not make a claim.
Evidence		incorrect.	\odot
	I gave evidence that helped me make my claim.	I gave evidence, but it did not have anything to do with my claim.	I did not give any evidence.

Severe Weather in Tennessee

Reflect

Do you like to play outside?

To be safe outside, you need to check the weather. Weather changes daily in Tennessee. In which weather do you like to play outside?





Sunny

Windy

Weather is always changing.

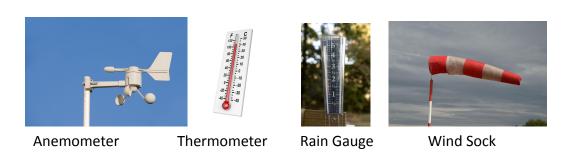
The best way to know about weather in Tennessee is to look at the weather forecast.



Do you know who makes the weather forecast?

Snowy

Weather scientists, or **meteorologists**, study weather conditions. They use weather tools to learn about the weather. Below are examples of weather tools:



Severe Weather in Tennessee

Meteorologists can predict nature's wildest weather. These weather hazards can be dangerous for people.

Meteorologists help keep people and property safe by warning them about dangerous weather. Here are weather hazards that can happen in Tennessee.



Thunderstorm



Lightning



Blizzard



Tornado



Drought and Heat



Hurricane



Flash Flooding

Try Now

You learned about weather hazards. They are a threat to people. Draw a line from the definition of each weather hazard to its picture.

An electric strike that comes with a storm

A funnel of quickly rotating air

Caused by lots of rain falling in an area quickly

Lots of snow falling in a short period of time









Look Out!

Weather scientists forecast severe weather so people can prepare for and respond to these events. Meteorologists save many lives and properties every year.



People from this town evacuated before the tornado hit.

Severe Weather in Tennessee

What Do You Think?

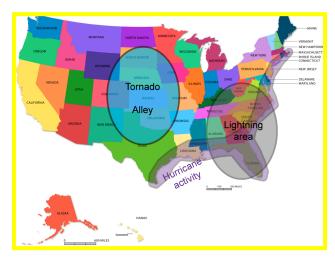
Landslides

Another hazard caused by weather is a landslide. Heavy rain sometimes loosens the rocks and soil on a hillside. The soil turns into mud and slides down the hill with rocks. Landslides can happen in Tennessee.



Some kinds of severe weather are more likely to happen in certain places.

Tornado Alley is a nickname for an area in the center of the U.S. because many tornadoes form there. These tornadoes can be dangerous to people and property.



Lightning strikes are also dangerous for people. Many lightning strikes occur in the southeast part of the U.S. By looking at the map, you can see that Tennessee is part of this lightning area.

If a **hurricane** is forecasted for your area, your family should prepare, protect your home, and decide the safest place to be. Hurricanes do not happen in Tennessee, but our state can still experience dangerous storms.

Severe Weather in Tennessee

Connecting With Your Child

Twisting Tornadoes

You can create your own mini tornado with your child.

You will need the following items:

- · 2 Empty plastic soda bottles, 2 liters, labels removed
- 1 Metal washer that is the same diameter of the bottle opening (or as close as possible)
- Duct tape
- Water

Procedure (if you don't have a tornado tube connector):

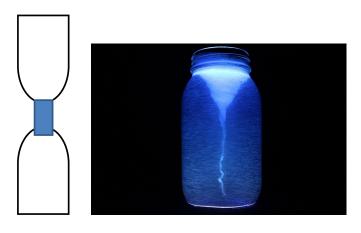
- 1. Fill the first bottle 2/3 full of water.
- 2. Place the washer so that it sits directly on the bottle opening.
- 3. Place the other, unfilled bottle on top of the washer and water-filled bottle so that the washer sits in place between the two. This bottle will be the opposite direction of the first bottle.
- 4. Use duct tape to secure the two bottles and washer in place. You don't want it to leak, and the duct tape seal should hold the two bottles together tightly with little wobbling.
- 5. Turn the bottles so that the one with water is directly on top of the other. Do not tilt it.
- 6. Swirl the upper bottle in a circular motion.
- 7. Watch the tornado!

If you want to get creative, you can also use food coloring to add color to the tornado and glitter and Styrofoam balls to represent debris.

The Styrofoam balls float but are sucked into the bottom bottle from the power of the spinning vortex. It is really cool to watch!

While the tornado in a bottle is a fun experiment, it is also an excellent learning experience. Discuss with your child ways you can take this experiment even further.

What happens when you narrow or widen the connector between the bottles? What other things can you do to alter the results? Test different openings and see what happens.





Name:	Date:

Vocabulary Prediction Chart

Teacher Printout

Vocabulary Word	Before Reading	Understanding after Reading
Forecast		
Meteorologist		
Evacuate		



lame:	Date:

