





CHARLOT



Weather Facts Games

PRESENTED BY







THUNDERSTORMS

IN THE CAROLINAS

MARGINAL



Isolated thunderstorms

SLIGHT

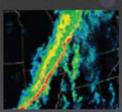
SINGLE CELL



Scattered thunderstorms

ENHANCED

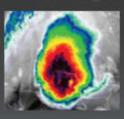
SQUALL LINE



Numerous severe storms possible

SEVERE

MULTICELL



Widespread. very severe



SUPERCELL



Widespread. very severe, long-lived

UNDERSTANDING WATCHES AND WARNINGS

WATCH

BE READY TO MOVE TO A SAFE PLACE

WARNING



TAKE ACTION! GET TO A SAFE PLACE NOW!

Think of it this way: A WATCH means the ingredients are there for something (to form). A WARNING means it has formed.









PREPAREDNESS CHECKLIST

Stock your emergency kit with these essentials

	A supplied	
First aid kit		
Medications		
One gallon a total of at	of water per person pe least three days	r day for
Non-perisha	able food	
Flashlight		
Batteries, in phones	cluding ways to rechar	ge cell
Seasonal cl	othing, including blanke	ets
Cash		
Basic tools	FIRE	
Books, gam	es or cards	13
Pet needs ir water, and r	ncluding extra food, nedicines	
E		



SUPERCELL

Supercell thunderstorms can produce any combination of severe weather threats

Balls of ice that fall from severe storms

Lightning Electric charge between a storm and the ground

Mind Air moving between different air pressures

Rain Moisture in the atmosphere turning to liquid and falling to the ground

TROPOPAUSE

REAR FLANK
DOWNDRAFT

FORWARD FLANK
DOWNDRAFT

FORWARD FLANK
DOWNDRAFT

OUTFLOW

HEAVY RAIN AND HAIL







Here's a perfect at-home science experiment to do with your family indoors when it's hot outside!

What you'll need:

Sugar

Half and half

Vanilla extract

Ice

Salt

Gallon bags

Quart or sandwich-sized bags (anything smaller than a gallon) Measuring cups and measuring spoons

Follow these three steps:

- 1. Prep your "ice cream bag." Add one tablespoon of sugar, 1/2 cup of half and half, and 1/4 teaspoon of vanilla extract to your small bag. Shake a little before sealing up tight!
- 2. Prep your "ice bag." Add four cups of ice to a gallon-sized bag with the salt on top. Seal up tight.
- 3. Place your ice cream bag inside your ice bag. Again, seal tightly!

It'll take about 15 - 20 minutes to get the desired impact. Shaking the bag every 5 minutes or so will help things quickly disperse.

Pro tip: this bag will eventually sweat out a lot of condensation. Placing it on a towel will result in less mess.





What will happen?

Due to the effect of the salt on the ice, allowing the ice to cool below the freezing point of water (32° F), the contents in the small bag will harden up and become ICE CREAM! Add sprinkles for a little extra taste.

What is the science?

Two things are constantly happening with ice in its solid state of water: the surface of the ice is melting and the melted water is refreezing.

To break that cycle, we add salt.

As the ice melts in our gallon bag, water molecules will mix with the salt molecules.

This makes it harder for the ice to refreeze.

So, the rate of that refreezing goes down. This allows for the ice cubes to melt a lot faster. As the ice cubes melt, ice absorbs heat, lowering the surrounding air temperature in the bag.

Eventually, the temperature inside the bag drops below 32° F and freezes our ice cream. This process is called the freezing point depression. **Ta-da!**





LIGHTNING



Lightning is one of the most underrated weather phenomena and it is a frequent occurrence here in the Carolinas.

- Over 75% of the lightning strikes for the year in North Carolina happen in June, July, and August.
- Lightning CAN strike the same place twice.

1 mi.

3. The odds of being struck by lightning are one in a million.



To tell how far away a thunderstorm is, simply count the number of seconds between the flash of lightning and the boom of thunder that follows. Divide this number by five and this tells you how many miles away you are from the storm.

THUNDER

.8 mi.

.6 mi.

.4 mi.

.2 mi.





Invite the WCNC Weather team to your classroom!

Email weather@wcnc.com



COOL VIDEOS!

If you like weather, watch Brad Panovich and the WCNC Charlotte Weather Team (Brad Panovich, KJ Jacobs, Chris Mulcahy, Larry Sprinkle and Brittany Van Voorhees) on their Emmy Award-winning Weather IQ YouTube channel.



BRAD PANOVICH





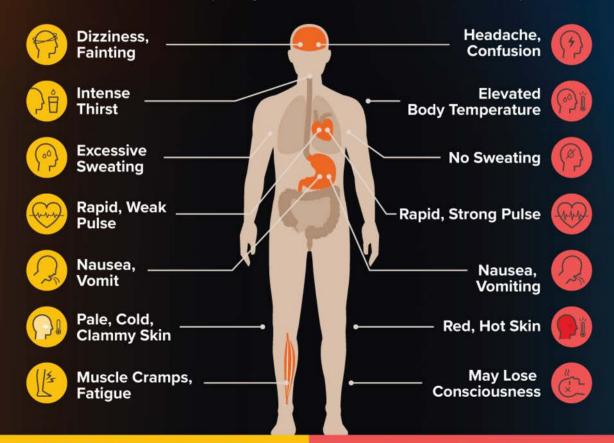


GOTAND COLD

When the weather is hot, you need to be aware of hyperthermia.

Signs of heat exhaustion include dizziness, excessive sweating, clammy skin, muscle cramps, and nausea.

To avoid heat exhaustion, spend time indoors (preferably in the air conditioning), take breaks in the shade, drink plenty of water, and avoid the hottest part of the day.



HEAT EXHAUSTION

MOVE TO A COOLER PLACE DRINK WATER IF ABLE TAKE A COLD SHOWER, USE COLD COMPRESSES

HEAT STROKE

CALL EMERGENCY SERVICES
TAKE IMMEDIATE ACTION TO COOL
THE PERSON



When the weather is cold, you need to be aware of hypothermia and frostbite.

Symptoms of hypothermia include shivering, confusion, exhaustion and drowsiness. These symptoms are caused by the body temperature dropping below 95 degrees. Treatment for hypothermia requires emergency medical attention.

To protect yourself, dress warmly when outdoors during cold weather. Winterizing your home by installing weather stripping and insulation can also help keep you warm. When traveling during cold weather, be sure to keep an extra jacket or blanket in the car.





The Wells Fargo Championship returns to Charlotte this May!





Bring the whole family out to the 2024 Wells Fargo Championship and stop by the Kids Zone, where you can enjoy concessions, fun games and interactive activities! Discovery Place, Atrium Health and First Tee of Greater Charlotte are hosting the fun and Harris Teeter will provide complimentary cookies.

Tickets are still available for the tournament and kids 15 & under receive free grounds admission with a ticketed adult, courtesy of Harris Teeter.

SEE YOU THERE

QUAIL HOLLOW CLUB | MAY 6 - 12, 2024





FLOODING IN THE CAROLINAS



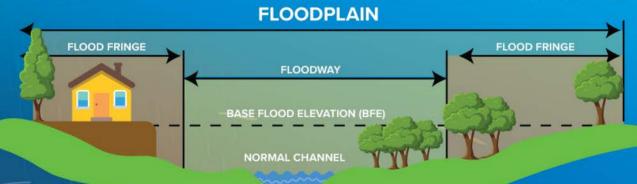
Flooding can happen anywhere. Know your flood threat and where to go if flooding occurs.

Never enter floodwaters. There could be unseen hazards, including downed power lines and chemical contaminates.

Mecklenburg County has over 3,000 miles of waterways, 1,000 of which are creeks that run through many neighborhoods.

When the National Weather Service issues a flash flood warning for your location, you should move to higher ground if your home is threatened by floodwaters.

CHARACTERISTICS OF A FLOODPLAIN





6 INCHES OF FAST-FLOWING WATER CAN KNOCK OVER AND CARRY AWAY AN ADULT

12 INCHES OF FAST FLOWING WATER CAN MOVE A SMALL CAR

18-24 INCHES OF FAST MOVING WATER CAN CARRY AWAY MOST LARGE SUVS, VANS AND TRUCKS



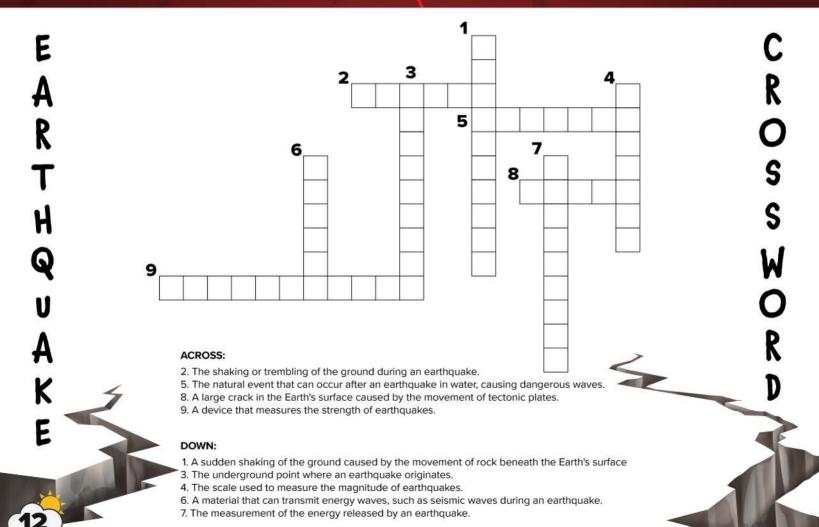


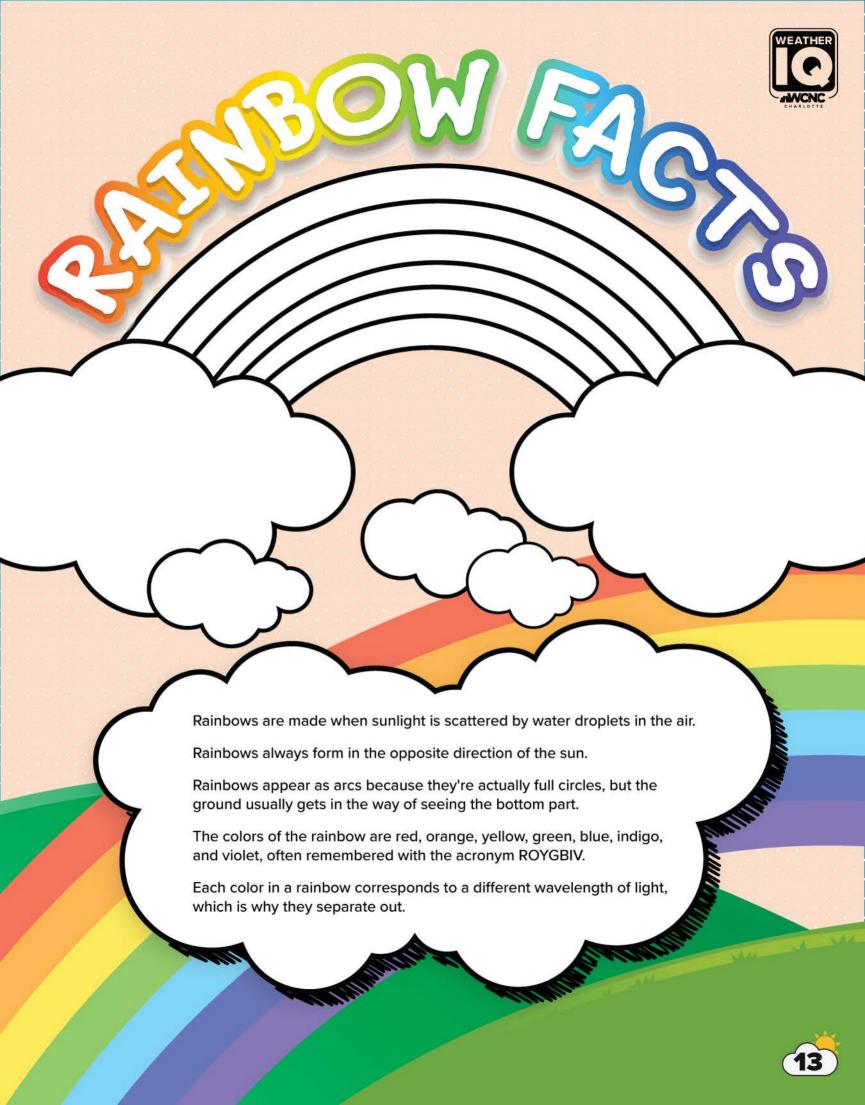
EARTHQUAKES IN THE CAROLINAS

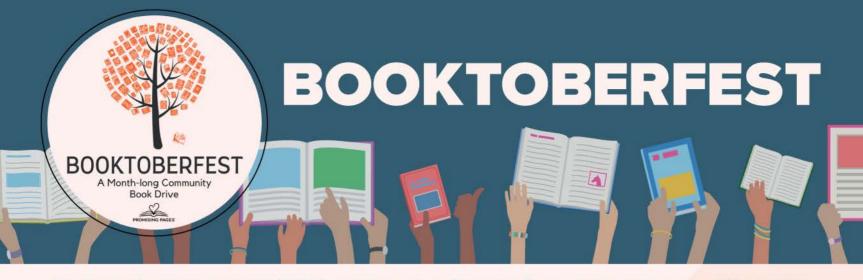
An earthquake is an intense shaking of the ground, caused by sudden movements under the Earth's surface.

The Richter scale is a measure of the strength of earthquakes.









Hundreds of organizations and 60,000+ children rely on Promising Pages as their main source of free books. As the Charlotte area's only book bank, we "re-home" hundreds of thousands of children's books each year, creating book-rich environments that offer children pathways to opportunity.

To ensure we have plenty of books to share with those that need them most, we host a month-long community book drive each October to collect new and gently used books. We call it BOOKTOBERFEST!

GET INVOLVED!

Individuals, community groups, and businesses are invited to join us!



Book Drive Captain

Whether you're an individual, business, neighborhood, or community organization we need your help collecting like new and gently used children's books. Click the link below to learn how you can sign up to be a book drive captain.



Donation Location

Businesses and publicfacing organizations can
serve as book drop-off
locations during the
month of October.
Promising Pages will
supply the bin, list your
business on our drop-off
location map, and you
collect the books! Click
the button below to learn
more or sign up.



Event Sponsor

Interested in supporting the largest community book drive in the region? Booktoberfest sponsorship benefits are numerous but the most important benefit is the impact you'll be making on the 64,000+ children we serve. Click the buttor below to learn more about how to become a sponsor.



WORD SEarch

V X K B Z Z E Z K H F J C N R H O T W K O J O G Y B A I R U O | FODEMKIEZCHMNOOTSELYWFYUZ | OE ZNIEVLLDSSBHYISLYSSQMVQUPCVDHG V R K H T I X U U G I W U J V S S U N N Y J Q O R X O C S J X R W C U A W Z D C G | Y H M W Z P E C N I W B U O L B H L AIPSVURLVXYUTYHXAHWAGOGWTXAZTO **HKGOHQMYWGIYVYWYFNCAKHNHGFDURC** UXYVGSMNTZGDJYPFINVAVIYQXTUQOX XATSWVYCABLNMIZERDLHBLOHLPGHRL XRNHYDSRDUPMKRYXCJZFNLCIVYJKLW YICCAYSHZBUCXCTYOZUNFOTLHRZSNO YYRLBCVMDBHUAWVUOCOQBRCBYACKSD CYXFGLUKLZGHIIWALYQVFPYMLKABGK CSKMHHIBKBEBGZZRGFTORNADOFZJHU WSZURPLBOCRTKIIQZCLZAGROTIQBYX ICPWUKXIUJAHAILICJVOPVYCPCRHYD NXLXKKGUGQQFTHUNDERKEYIJXAVFRV DUGLIHVONHZHTHSBONKHZESMPKUZSB J A P Q G V W F M A T L R M T Q K E D J V K R T N H Q P I V SVPAZHWVGZJNLLEUBTTKCAKCOUJAGZ YU|KFEFURCVQIRXGGXBEQGDBGROJPY XAKEMNPRIPBLINVOKLIRNDYYQVMCMS Q C H I U J O Q Z L A J P B G Q L L Z X V I L Z B J F M C Q G | Z V D P P L Z W K L O A L N N | | F Q | A O | S A F O G KGYLHTVRHIIGTB | E | DXNHXCPUAM I BM G M Z O V D P H Q N D H K R D J J T G T E Z L E J U A F X O OIRXDOQFYDBK|YPSIQYHYNOKULMIFL DD I A D B D V O S M B F J G T N H A R U E U E G O K M G Z TWSUIPIWRRFNYVNXKOQICZDSNHZZUI J Y Y H Y N M D V Y T A Z H W C J E W I K A S L L F V V O S

Lightning Sunny Hail
Thunder Storm Wind
Tornado Rain Cool
Clouds Snow

Fog



Hot





WEATHER

