



OKLAHOMA'S

WILD WEATHER



Scott Sackett

David Payne

The Oklahoma
Weather Expert



Hey Kids,

Weather in Oklahoma can sometimes be scary and even dangerous, but we want to help keep you and your family safe.

The best way to stay safe is to understand the weather and what to do in different situations, like flooding, lightning and tornadoes.

Take this comic book home and then:

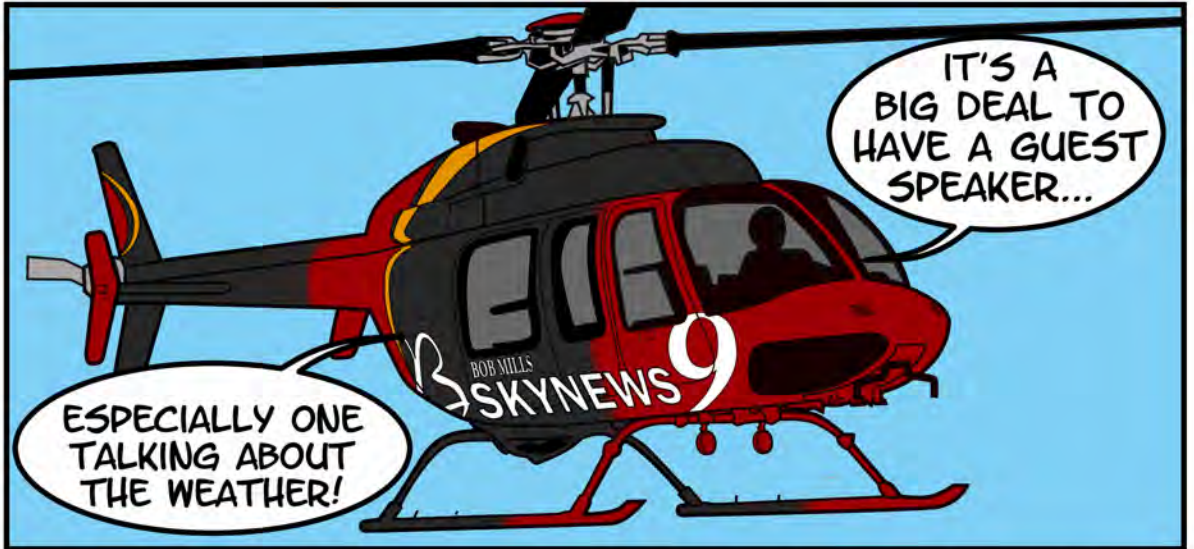
1. Read it with your family
2. Talk about your safety plan
3. Create an emergency kit

Oklahoma weather can be beautiful, but when storms come, our team is here to help you understand what is happening outside and what you need to do to stay safe.

Stay with News 9, we'll keep you advised.

A handwritten signature in black ink that reads "David Payne". The signature is stylized, with the first name "David" written in a cursive script and the last name "Payne" written in a more formal, slightly cursive script.

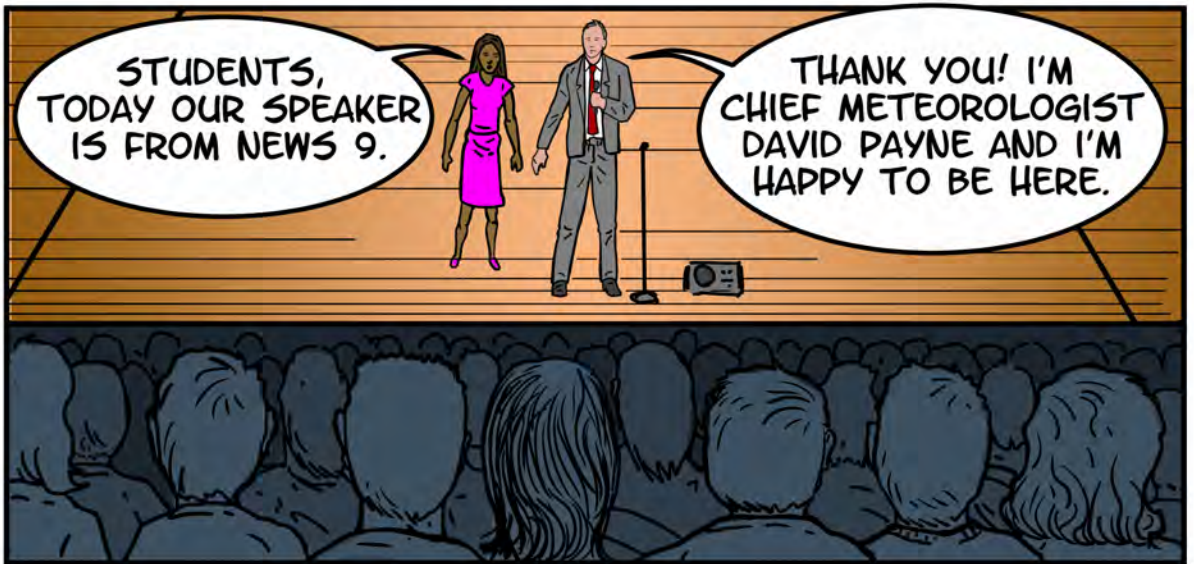
David Payne
News 9 Chief Meteorologist



A VISIT FROM THE NEWS9 WEATHER TEAM!

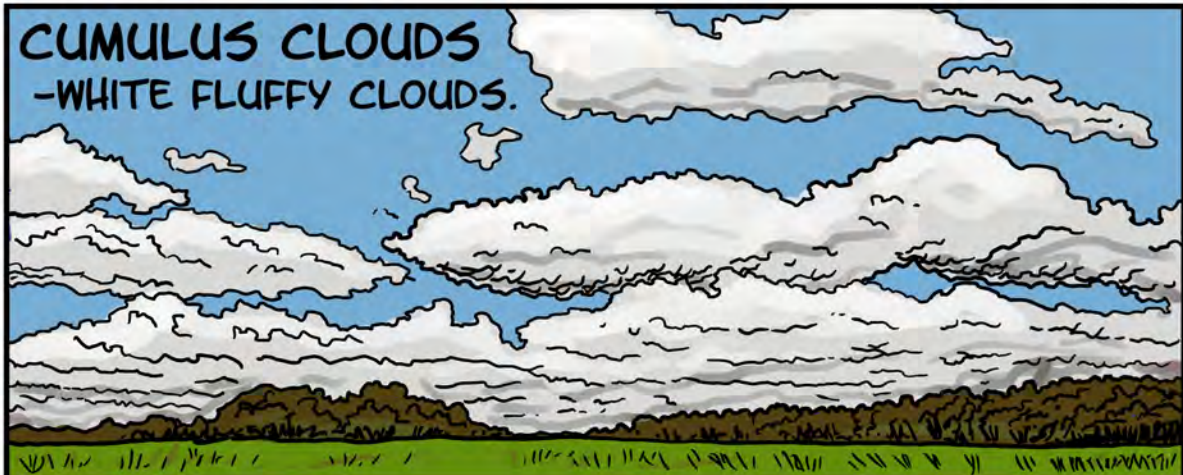
WORDS BY MATT MAHLER & PICTURES BY SCOTT SACKETT



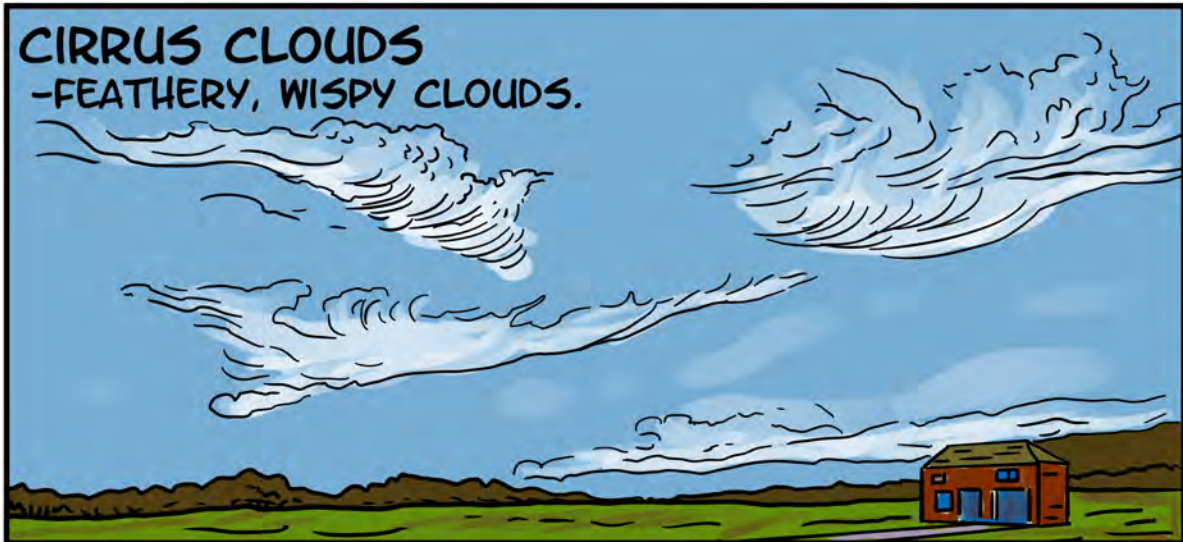


THREE TYPES OF CLOUDS

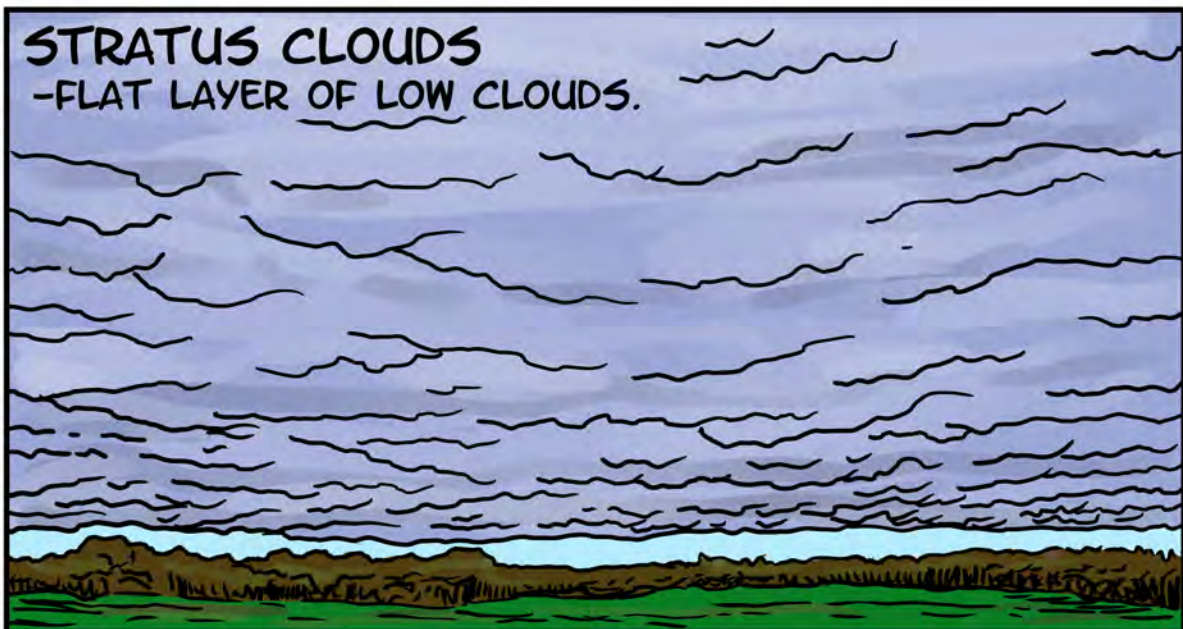
CUMULUS CLOUDS
-WHITE FLUFFY CLOUDS.



CIRRUS CLOUDS
-FEATHERY, WISPY CLOUDS.



STRATUS CLOUDS
-FLAT LAYER OF LOW CLOUDS.



THUNDERSTORM CLOUDS

DEVELOPING STORM CLOUDS.

WARM, MOIST AIR RISES AND BEGINS TO COOL. THE MOISTURE FORMS CLOUDS.



ADVANCED STORM CLOUDS.

THIS CAUSES THE CLOUDS TO CONTINUE RISING, CREATING MORE MOISTURE.

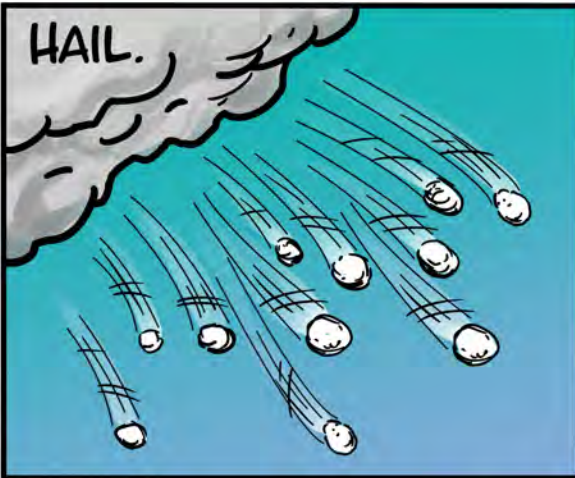
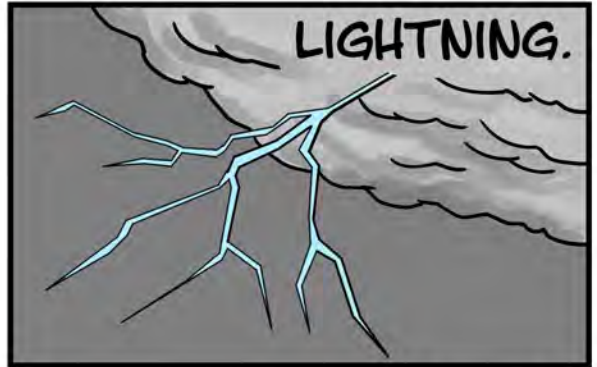
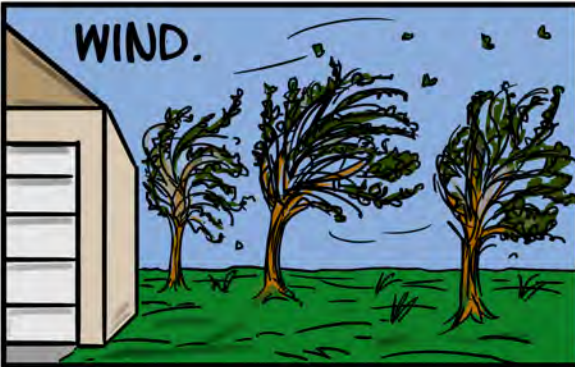


MATURE STORM CLOUDS.

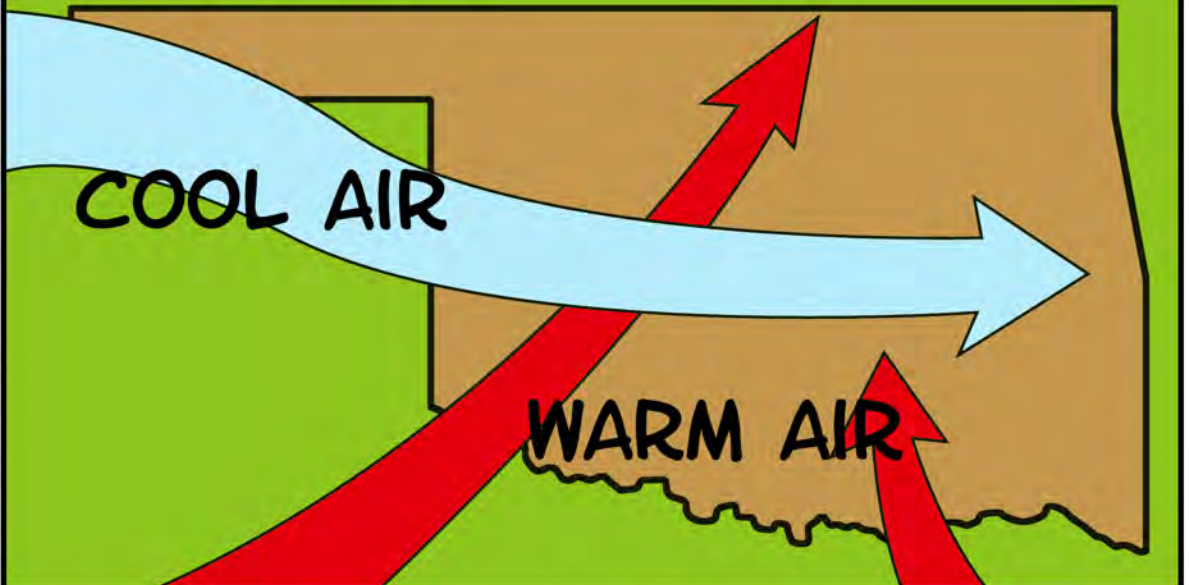
EVENTUALLY, THE WATER DROPLETS BECOME SO LARGE THEY CANNOT BE SUPPORTED BY THE RISING AIR AND THEY FALL. THIS FORMS DOWNDRAFTS NEXT TO UPDRAFTS AND IS THE MOST DANGEROUS STAGE OF THE THUNDERSTORM.



INGREDIENTS OF A STORM

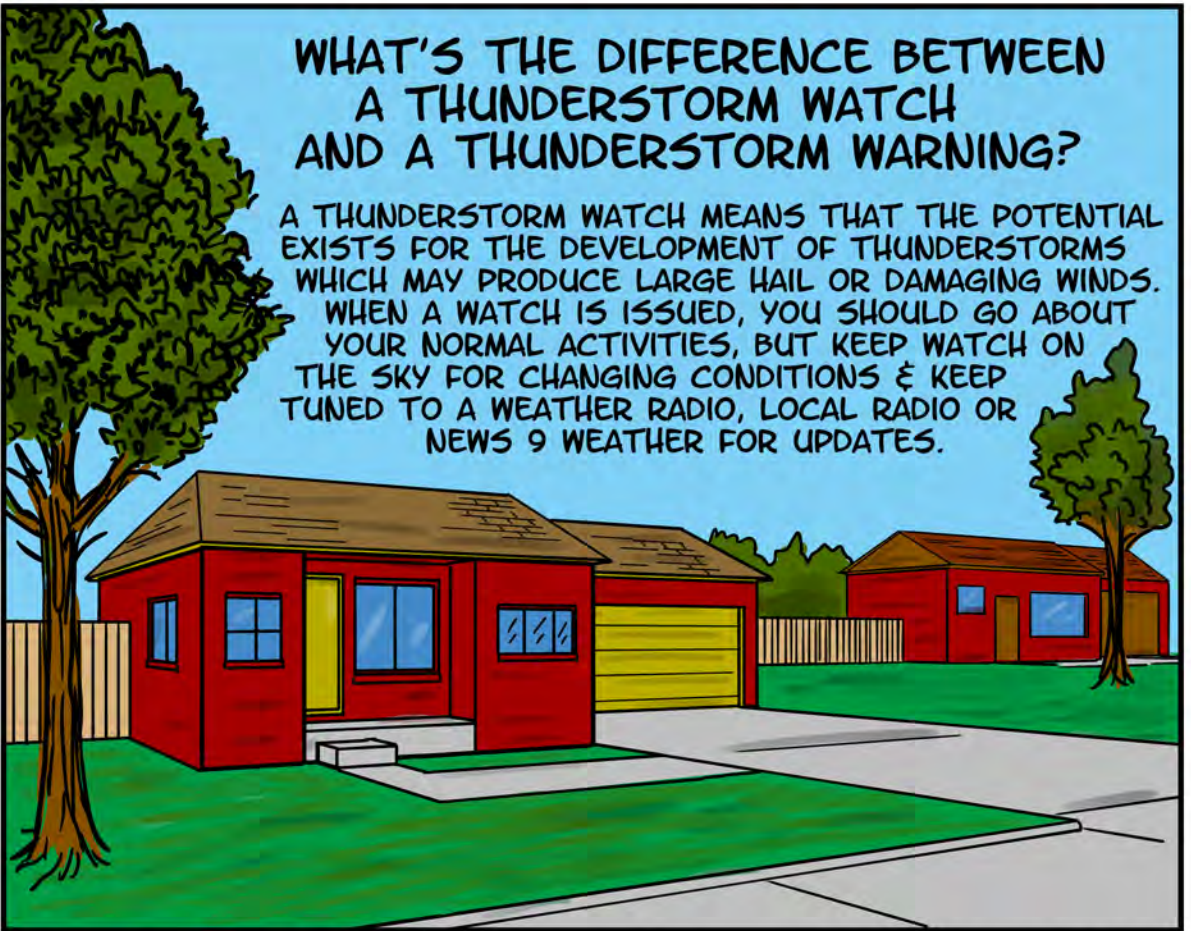


A THUNDSTORM IS CAUSED WHEN WARM AIR MASSES IN THE LOWER ATMOSPHERE RISE AND MIX WITH COOL AIR MASSES HIGHER IN THE ATMOSPHERE.

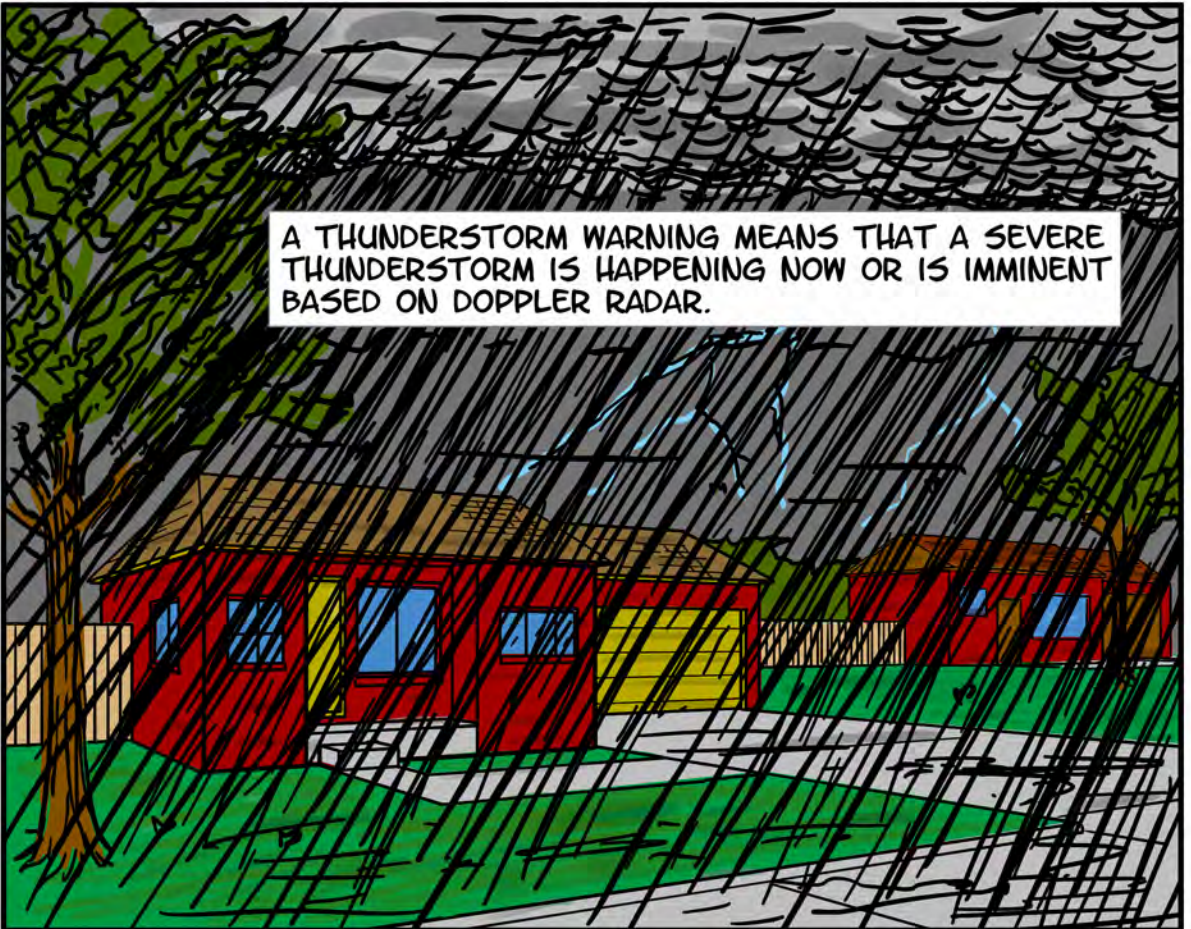


WHAT'S THE DIFFERENCE BETWEEN A THUNDERSTORM WATCH AND A THUNDERSTORM WARNING?

A THUNDERSTORM WATCH MEANS THAT THE POTENTIAL EXISTS FOR THE DEVELOPMENT OF THUNDERSTORMS WHICH MAY PRODUCE LARGE HAIL OR DAMAGING WINDS. WHEN A WATCH IS ISSUED, YOU SHOULD GO ABOUT YOUR NORMAL ACTIVITIES, BUT KEEP WATCH ON THE SKY FOR CHANGING CONDITIONS & KEEP TUNED TO A WEATHER RADIO, LOCAL RADIO OR NEWS 9 WEATHER FOR UPDATES.



A THUNDERSTORM WARNING MEANS THAT A SEVERE THUNDERSTORM IS HAPPENING NOW OR IS IMMINENT BASED ON DOPPLER RADAR.



THREE TYPES OF WIND

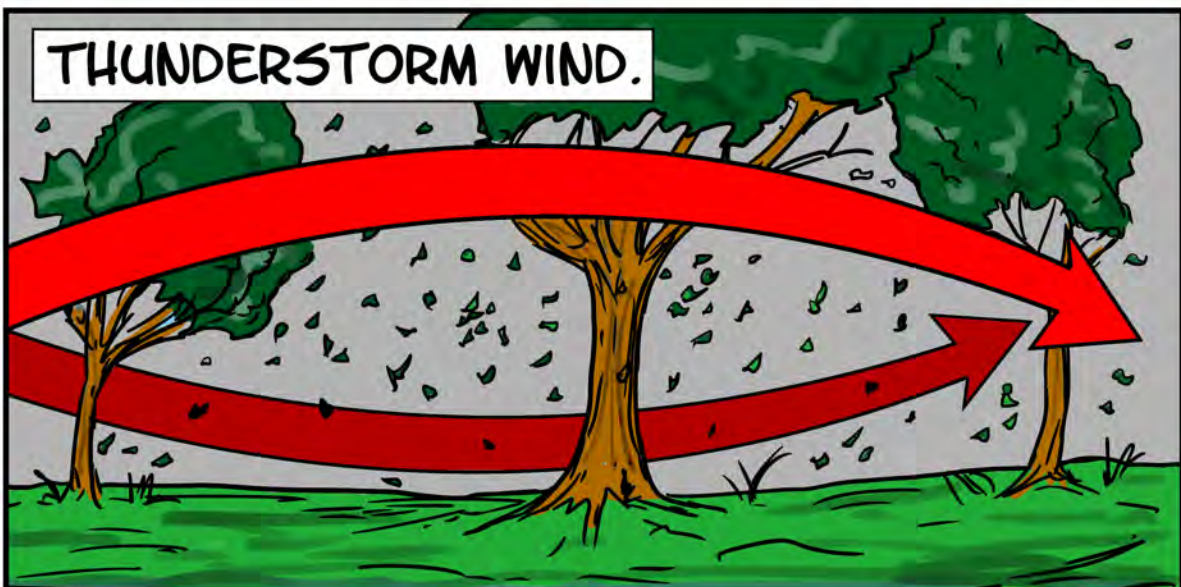
NORMAL WIND.



STRONG WIND.



THUNDERSTORM WIND.



LET'S TALK ABOUT...

LIGHTNING!

WHAT SHOULD YOU DO?



AVOID TREES!



AVOID WATER!



STAY IN
YOUR CAR!



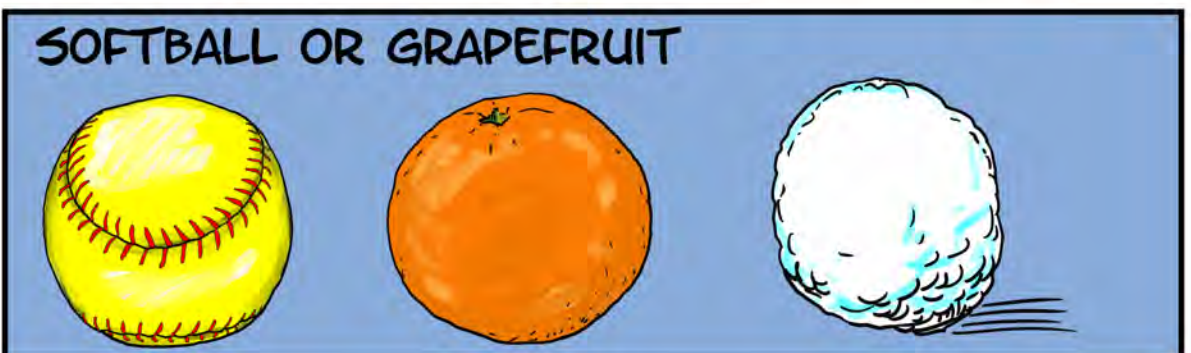
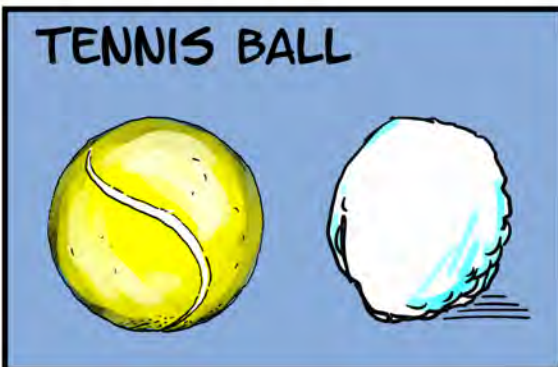
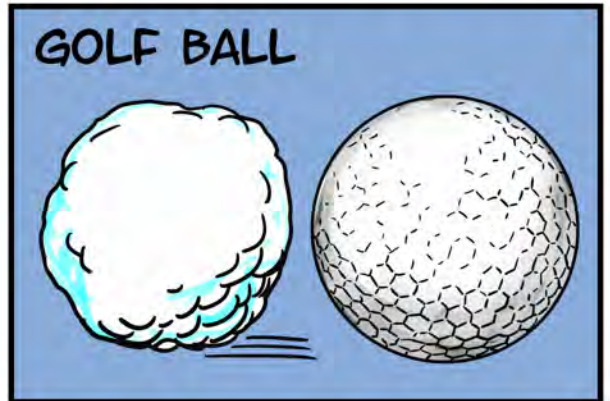
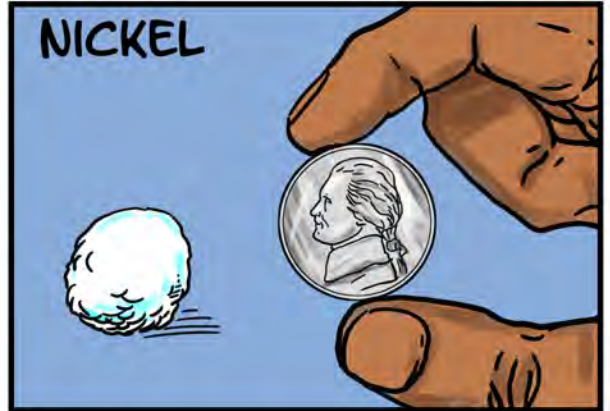
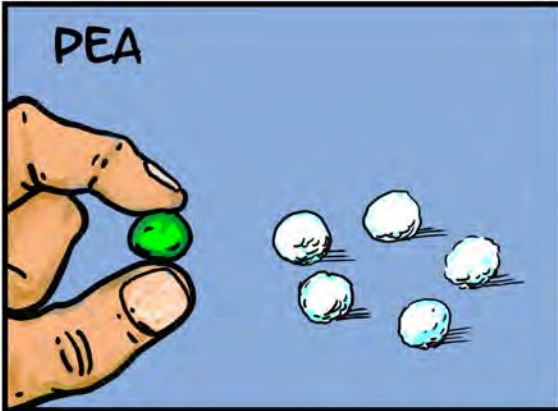
GO INSIDE!



HAIL

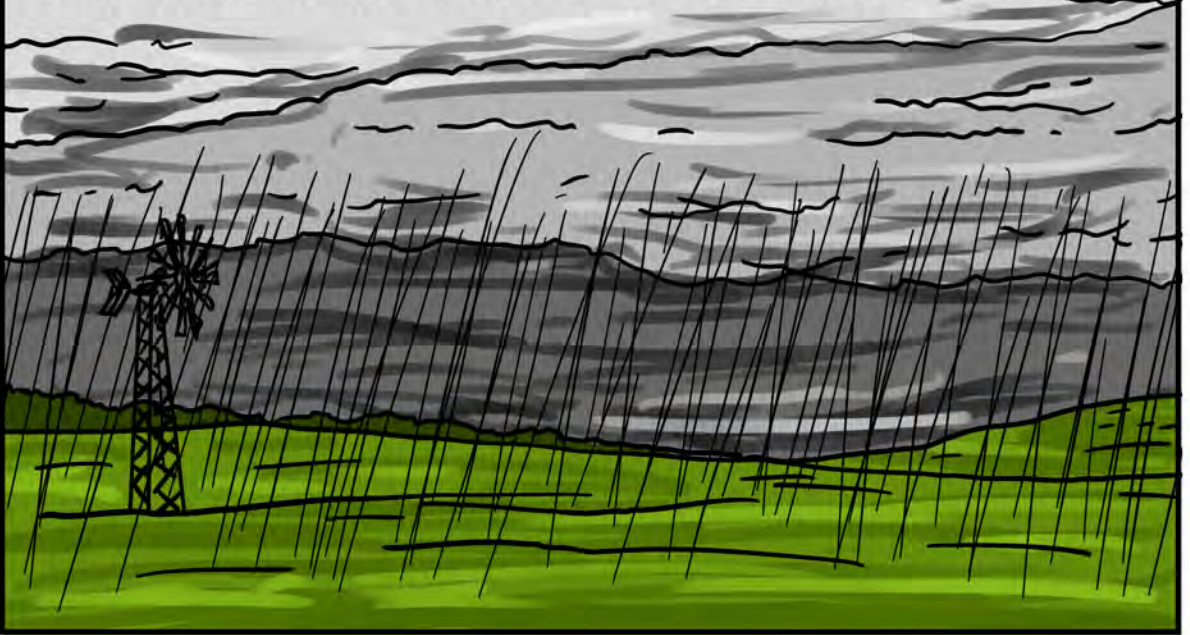
HAIL IS FROZEN PRECIPITATION FORMED DURING A STORM.

HAIL IS CLASSIFIED BY ITS SIZE AS RELATED TO COMMON OBJECTS. SUCH AS...

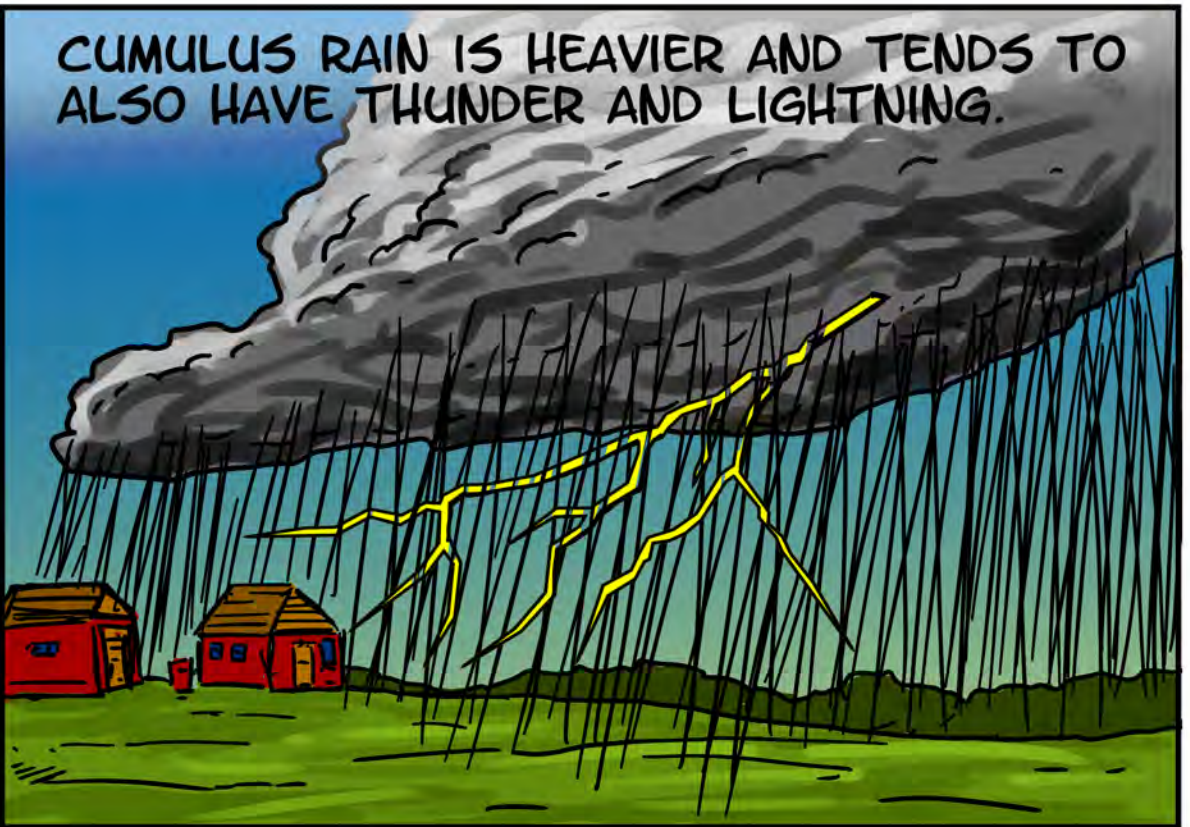


NON STORM RAIN CAN COME FROM EITHER CUMULUS OR STRATUS CLOUDS.

STRATUS RAIN TENDS TO BE GENTLE.



CUMULUS RAIN IS HEAVIER AND TENDS TO ALSO HAVE THUNDER AND LIGHTNING.



EITHER TYPE CAN LEAD TO...

FLOODING

FLASH FLOODING IS DANGEROUS. THIS HAPPENS WHEN RAIN FALLS SO FAST IT CANNOT DRAIN OFF. IT CAN HAPPEN IN...

CREEKS

WHEN A CREEK TAKES RAIN WATER FASTER THAN IT CAN DRAIN, IT CAN FLOOD ITS BANKS.



STORM DRAINS

DEBRIS IN A STORM DRAIN CAN CAUSE IT TO FLOOD OR HEAVY RAIN CAN PUT MORE WATER IN THE DRAIN THAN THE UNDERGROUND PIPES CAN CARRY AWAY.



THINGS TO AVOID IN A FLOOD

FLOODED ROADS

NEVER DRIVE THRU FLOODED ROADS. ALWAYS REMEMBER TO TURN AROUND, DON'T DROWN. BE SAFE AND TAKE A DIFFERENT ROUTE.



CREEKS

NEVER SWIM IN A CREEK DURING OR AFTER RAIN! THE WATER IS MOVING STRONGER AND FASTER THAN IT LOOKS.



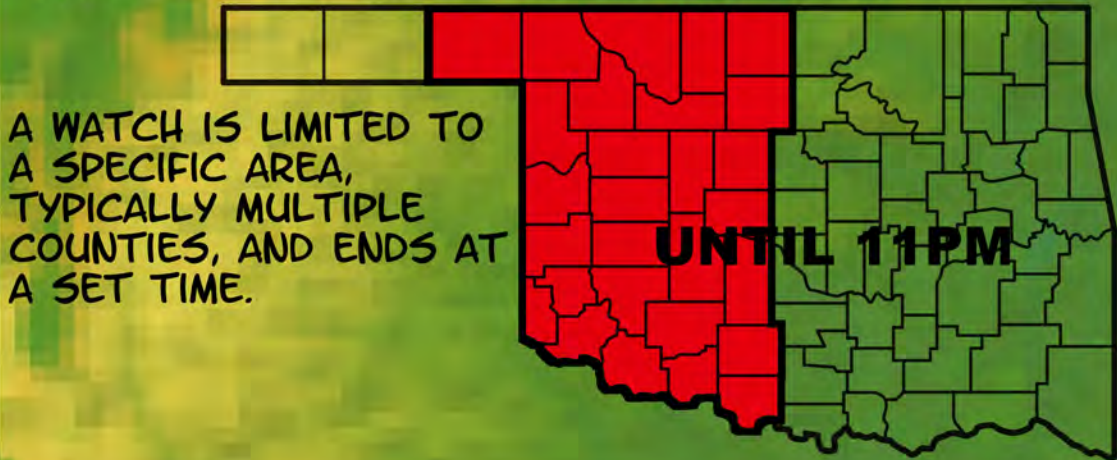
EVEN AFTER RAIN STOPS IT CAN TAKE A WHILE FOR FLOODING TO STOP AND FOR WATER LEVELS TO DROP BACK TO NORMAL

ALWAYS STAY SAFE JUST IN CASE!

TORNADO WATCH VS. WARNING

WHAT'S THE DIFFERENCE?

A TORNADO WATCH MEANS WEATHER CONDITIONS ARE FAVORABLE FOR THE DEVELOPMENT OF SEVERE THUNDERSTORMS THAT COULD PRODUCE TORNADOES.



A TORNADO WARNING MEANS A TORNADO HAS BEEN SPOTTED OR INDICATED BY RADAR.



TAKE PRECAUTIONS!

**TORNADO PRECAUTIONS CAN CHANGE,
DEPENDING ON WHERE YOU ARE.**

**THE BEST OPTION:
AN UNDERGROUND SHELTER OR SAFE ROOM.**



IF YOU ARE IN A HOUSE...

- GO TO GROUND LEVEL.
- FIND A SMALL, INTERIOR ROOM.
- AVOID WINDOWS.



IF YOU ARE IN AN APARTMENT...

- IF A PUBLIC SHELTER IS AVAILABLE GO THERE.
- OTHERWISE, GO TO GROUND LEVEL.
- FIND A SMALL, INTERIOR ROOM.
- AVOID WINDOWS.



IF YOU ARE IN A MOBILE HOME...

- MOBILE HOMES ARE NOT SAFE IN TORNADOES!
- FIND SHELTER IN A PERMANENT STRUCTURE.



TORNADO PRECAUTIONS CAN CHANGE, DEPENDING ON WHERE YOU ARE.

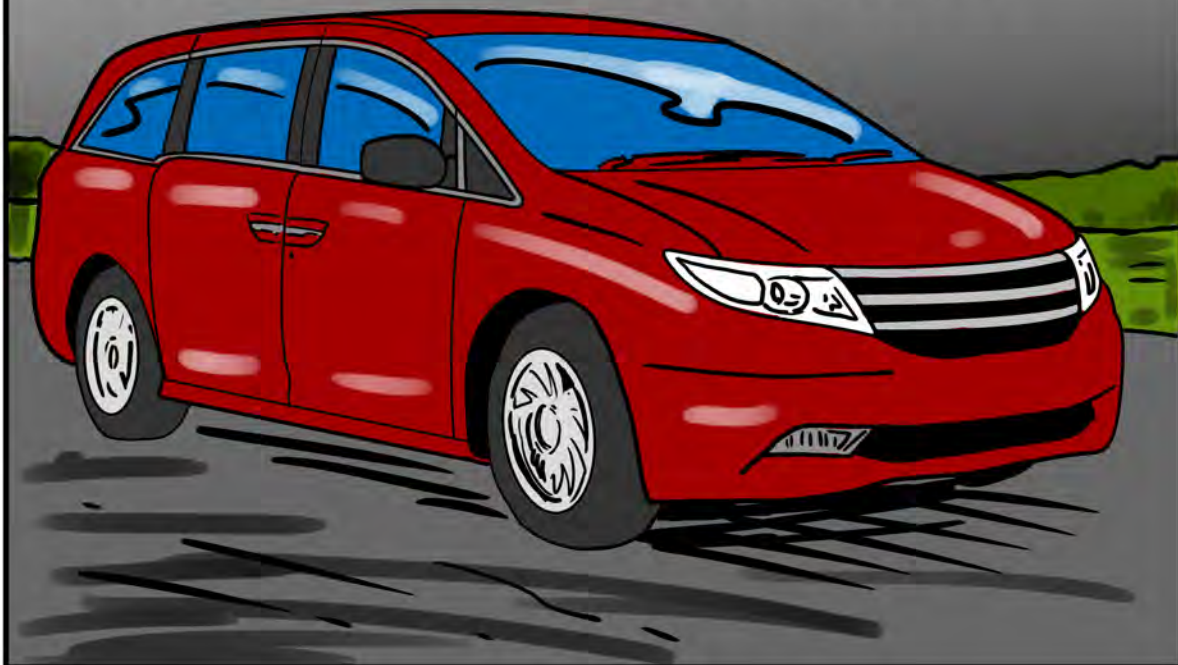
IF YOU ARE AT SCHOOL...

- LISTEN TO YOUR TEACHERS.
- GO TO GROUND LEVEL.
- FIND A SMALL, INTERIOR ROOM.
- AVOID WINDOWS.
- REMEMBER YOUR DRILLS.



IF YOU ARE IN A CAR...

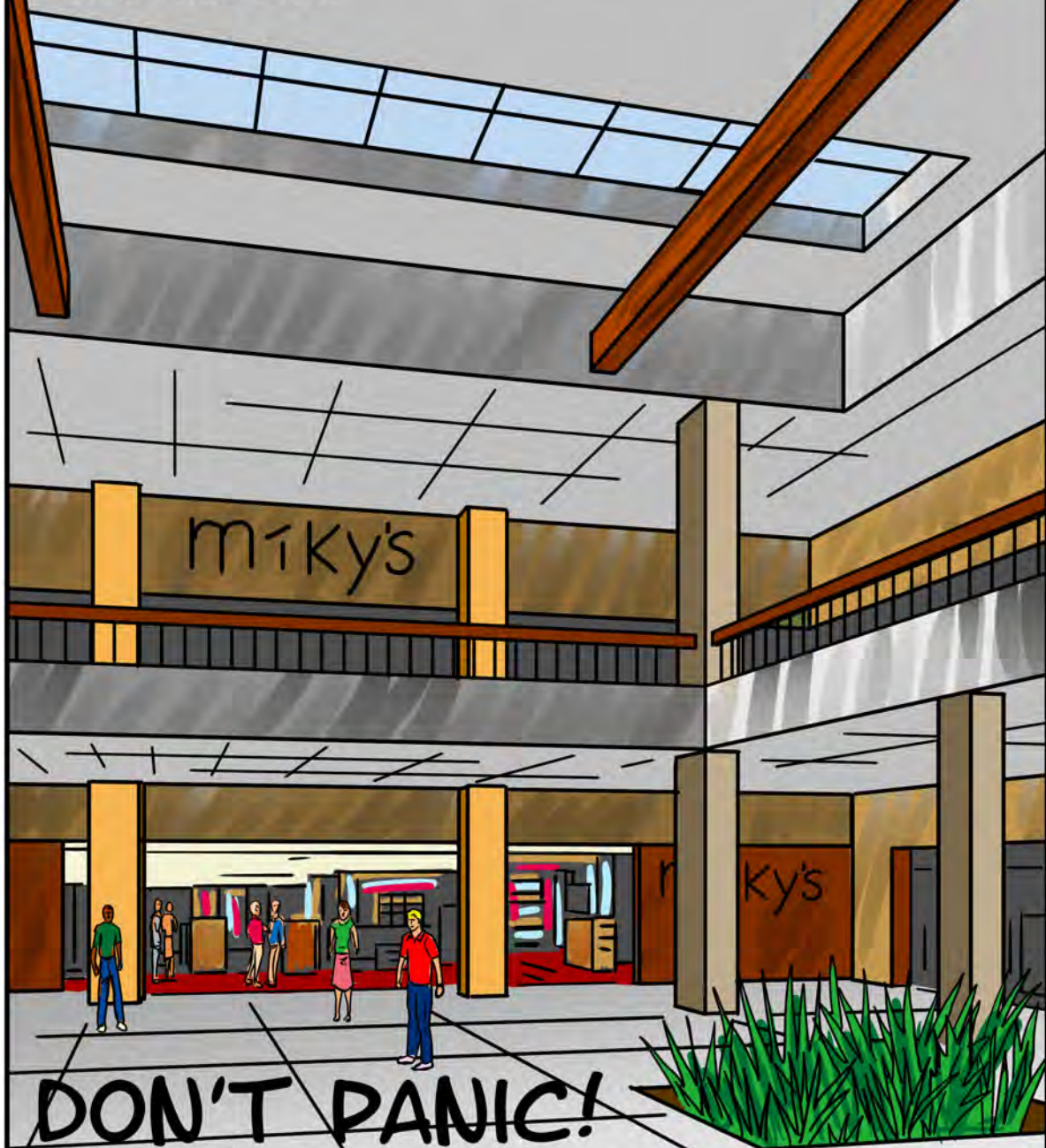
- SEEK PERMANENT SHELTER.
- NEVER TRY TO OUTRUN A TORNADO.
- NEVER HIDE UNDER AN UNDERPASS OR BRIDGE.



**TORNADO PRECAUTIONS CAN CHANGE,
DEPENDING ON WHERE YOU ARE.**

**IF YOU ARE AT A PUBLIC PLACE SUCH AS A
LIBRARY, CHURCH, MALL...**

- IF A PUBLIC SHELTER IS AVAILABLE GO THERE.
- OTHERWISE, GO TO GROUND LEVEL.
- FIND A SMALL, INTERIOR ROOM.
- AVOID WINDOWS.



**DON'T PANIC!
KEEP CALM & REMEMBER YOUR DRILLS!**

PREPARE SUPPLIES IN ADVANCE IN CASE YOU HAVE TO TAKE TORNADO PRECAUTIONS. IN AN EMERGENCY YOU WON'T HAVE TIME.

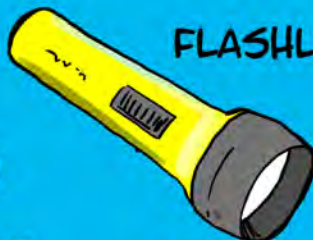
GET AN ADULT TO HELP YOU GATHER THESE ITEMS FOR YOUR EMERGENCY KIT.



WEATHER RADIO



SPARE BATTERIES



FLASHLIGHT



SHATTER-RESISTANT GOGGLES



HELMET



WATER



WORK GLOVES



LONG PANTS & SHIRT



CLOSED-TOE SHOES



FIRST AID KIT



CELL PHONE & CHARGER



NON-PERISHABLE SNACKS



THESE CAN BE PUT IN A BACKPACK AND KEPT SOMEWHERE SAFE.



WORD FIND

SEARCH BELOW TO FIND THE FOLLOWING WEATHER TERMS.

CIRRUS
RAIN
CLOUD
STORM
CUMULUS

STRATUS
FLOOD
THUNDER
HAIL
WIND

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

ANSWERS ON PAGE 22

CROSSWORD

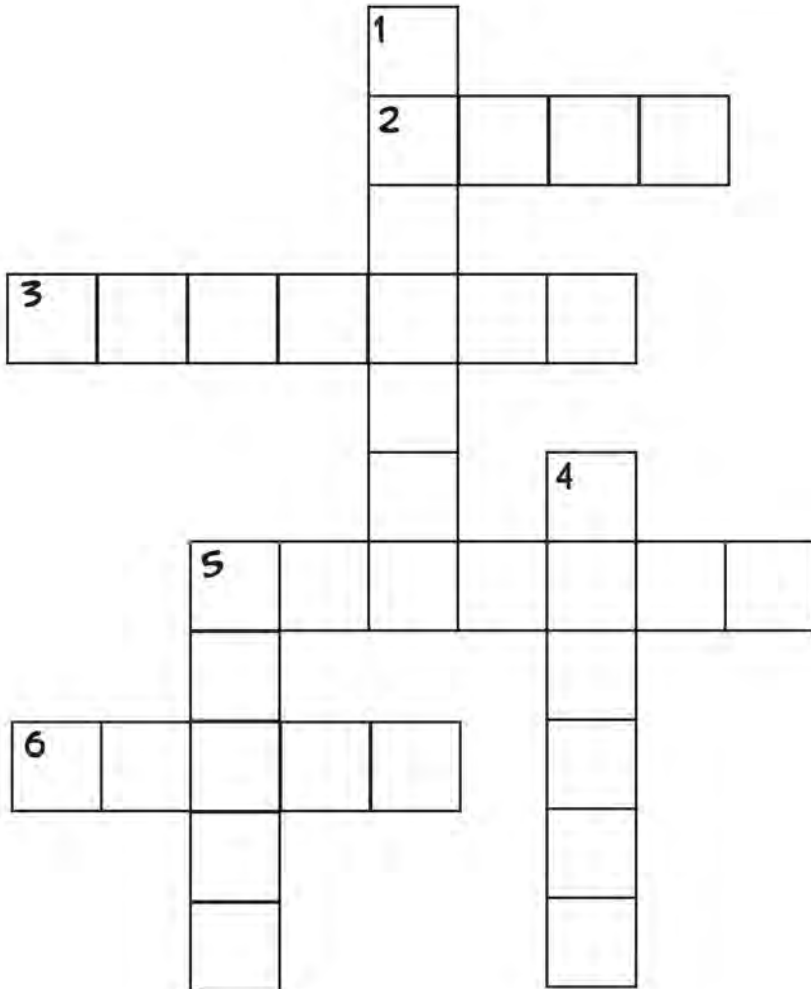
ANSWER THE QUESTIONS TO FILL OUT THE CROSSWORD.

ACROSS

2. FROZEN PRECIPITATION.
3. WHITE FLUFFY CLOUDS.
5. ISSUED WHEN A TORNADO IS SPOTTED.
6. AVOID THIS DURING LIGHTNING.

DOWN

1. SAFEST PLACE DURING A TORNADO.
4. COMMON SIZE OF HAIL.
5. MEANS CONDITIONS ARE FAVORABLE FOR A TORNADO.



ANSWERS ON PAGE 22

TRUE OF FALSE

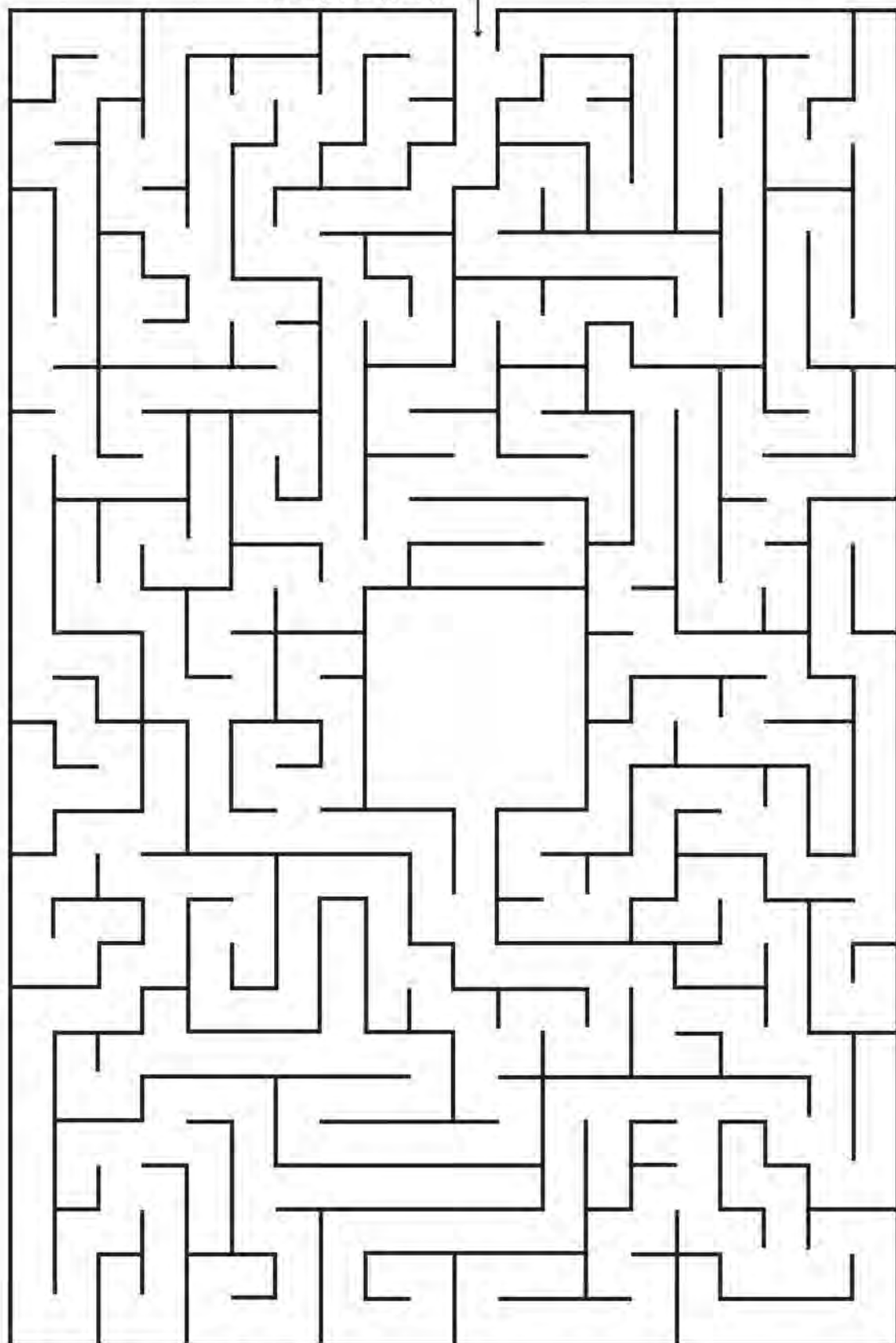
CIRCLE TRUE OR FALSE FOR THE FOLLOWING QUESTIONS.

- 1) T OR F YOU SHOULD NEVER DRIVE INTO WATER YOU IF DON'T KNOW HOW DEEP IT IS.
- 2) T OR F HAIL IS CLASSIFIED BY WHAT COLOR IT IS.
- 3) T OR F YOU SHOULD NEVER SWIM IN A CREEK WHILE IT IS RAINING.
- 4) T OR F IF TORNADO SIRENS GO OFF WHILE YOU ARE AT SCHOOL, YOU SHOULD REMEMBER YOUR DRILLS AND LISTEN TO YOUR TEACHERS.
- 5) T OR F A MOBILE HOME IS A GOOD PLACE TO BE DURING A TORNADO.
- 6) T OR F JUST BY LOOKING AT THE SKY YOU CAN TELL IF YOU ARE UNDER A THUNDERSTORM WATCH.
- 7) T OR F CUMULUS CLOUDS ARE WHITE AND FLUFFY.
- 8) T OR F A STORM MAY CONTAIN HAIL.
- 9) T OR F RAIN CAN COME FROM STRATUS OR CUMULUS CLOUDS.
- 10) T OR F A WARNING MEANS A TORNADO HAS BEEN SPOTTED.
- 11) T OR F A HELMET ISN'T USEFUL DURING A TORNADO.

ANSWERS ON PAGE 22

FIND YOUR WAY TO SHELTER BEFORE IT RAINS.

START HERE



ANSWERS ON PAGE 22

WORD SCRAMBLE

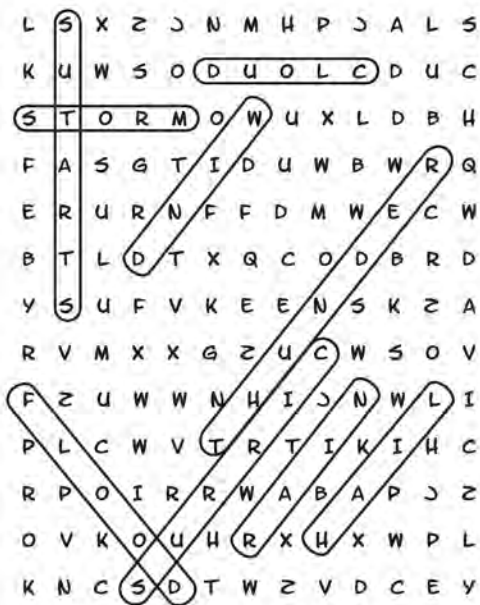
UNSCRAMBLE THE FOLLOWING WEATHER TERMS.

- 1) NRAI _____
- 2) EHRNDUT _____
- 3) LGINITGNH _____
- 4) TANORDO _____
- 5) OLUCD _____
- 6) HLIA _____
- 7) RMTSO _____
- 8) DOLOF _____
- 9) WTHCA _____
- 10) WRINNAG _____
- 11) INWD _____
- 12) SHERLTE _____
- 13) ORIDA _____
- 14) LUMCSULU _____
- 15) ARMW _____

ANSWERS ON PAGE 22

ANSWERS

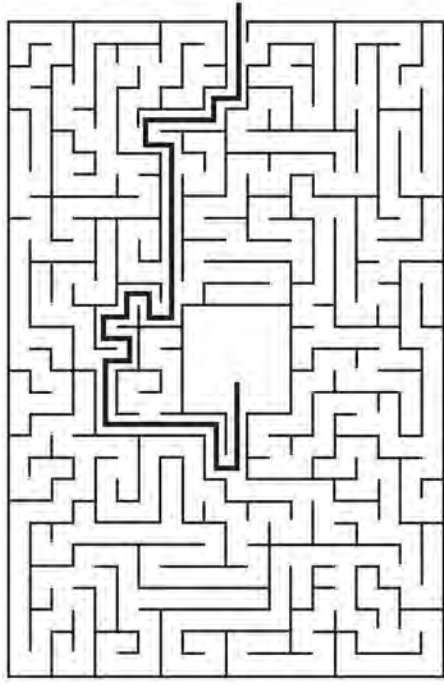
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PAGE 18



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PAGE 19

- 1) T
- 2) F
- 3) T
- 4) T
- 5) F
- 6) F
- 7) T
- 8) T
- 9) T
- 10) T
- 11) F

PAGE 21

- 1) RAIN
 - 2) THUNDER
 - 3) LIGHTNING
 - 4) TORNADO
 - 5) CLOUD
 - 6) HAIL
 - 7) STORM

- 8) FLOOD
 - 9) WATCH
 - 10) WARNING
 - 11) WIND
 - 12) SHELTER
 - 13) RADIO
 - 14) CUMULUS
 - 15) WARM

PAGE 22

NOTES

CHECKLIST

FILL THIS OUT AND KEEP IN A SAFE PLACE.

NAME _____

ADDRESS _____

PHONE NUMBER _____

PARENT _____

PHONE NUMBER _____

PARENT _____

PHONE NUMBER _____

IS SOMEONE ELSE ALLOWED TO PICK YOU UP
FROM SCHOOL? _____

NAME _____

PHONE NUMBER _____

ALTERNATE EMERGENCY CONTACT

NAME _____

PHONE NUMBER _____

MEDICINE _____

ALLEGIES _____

OTHER MEDICAL CONDITIONS



Oklahoma's Own



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