

Step 2. Dig into the Problem in Tulsa, OK

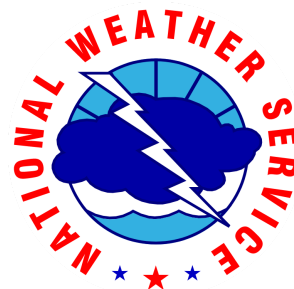
Important Vocabulary	
Design Thinking	a multi-step process of solving a problem where you imagine an ideal solution , research the problem to understand it better, revise your idea, develop a prototype, and test it
Iteration	changing your plan to make it better based on new things you learn
Prototype	a first, real-life example of a new idea
Mobile Technology	technology related to cell phones and wireless communication devices
Cellular Network	how cell phones stay connected to each other when they are not connected to wi-fi
Natural Hazard	an extreme natural event such as an earthquake, tornado, wildfires, and flooding
Natural Disaster	the effects of a natural hazard on human life and society
Mitigate	to decrease the effects of something

Storms and Natural Disasters



Ready.gov

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



National Weather Service: Safety

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



National Weather Service: Learn Science and Safety with Owlie

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



Environmental Protection Agency

<https://www.epa.gov/natural-disasters>

Mobile Technology

Introduction to US Cellular and Cellular Networks



See Wireless Fundamental Resources and Wireless Fundamental FAQ



Wireless 101: Cellular Transmission

<https://www.youtube.com/watch?v=HtCBsULS2VA&feature=youtu.be>

howstuffworks

Four Reasons Your Phone Keeps Dropping Calls

<https://electronics.howstuffworks.com/4-reasons-phone-keeps-dropping-calls.htm>



How Cell Towers Work: Hands On!

<https://www.youtube.com/watch?v=Ct0wFde9Xcl>

Using Mobile Technology During and After Disasters

OPENSIGNAL

Hurricane Florence's Impact on Mobile Networks

<https://www.opensignal.com/blog/2018/10/24/hurricane-florences-impact-on-mobile-networks-lasting-for-days>



Mobile Phones as Lifelines for Staying Connected During a Disaster

<https://www.cnet.com/news/mobile-phones-as-lifelines-tips-for-staying-connected-during-a-disaster/>



Federal
Communications
Commission

Federal Communications Commission

<https://www.fcc.gov/emergency>

Shelters



American Red Cross

American Red Cross Disaster Relief

<https://www.redcross.org/about-us/our-work/disaster-relief.html>

 **NATIONAL MASS CARE STRATEGY**

National Mass Care Strategy: American Red Cross Shelter Forms

<https://nationalmasscarestrategy.org/american-red-cross-shelter-forms/>



FEMA

**Federal Emergency Management Agency:
Community Safe Rooms**

https://www.fema.gov/media-library-data/1482263207061-f439680edcd403c72447a5b612867e18/Community-Safe-Room-Fact-Sheet_2016.pdf



Texas Tech University: Safety Checklist

<http://www.depts.ttu.edu/nwi/education/EducationResources/index.php>
(Scroll to Bottom)

Community Communication and Collaboration

YourFreeCareerTest

Your Free Career Test: What is an Emergency Management Director?

<https://www.yourfreecareertest.com/emergency-management-director/>



National Severe Storm Laboratory

<https://www.nssl.noaa.gov/research/social/>

Tulsa, OK Resources



Mesonet: Current Weather Conditions

<http://www.mesonet.org/index.php/weather/local>



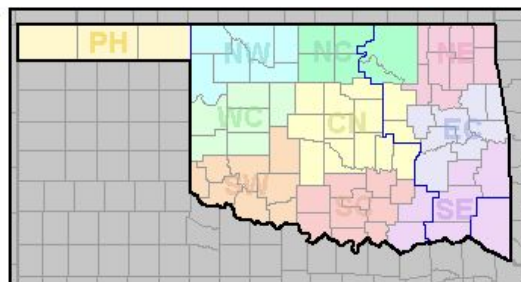
Preparing Makes Sense (Informational Brochure)

<https://www.nssl.noaa.gov/research/social/>



Tornado History Project

<http://www.tornadohistoryproject.com/tornado/Oklahoma>



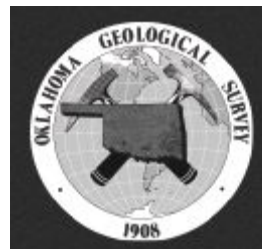
National Weather Service: Oklahoma Historic Tornado Data Web Pages by County

<https://www.weather.gov/oun/tornadodata-county-ok>



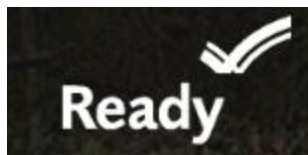
Oklahoma Climatological Survey: Tornadoes and Severe Storms

http://climate.ok.gov/index.php/climate/category/tornadoes_severe_storms



Oklahoma Geological Survey: Recent Earthquakes

<http://www.ou.edu/ogs/research/earthquakes/recentearthquakes>



Ready.gov: Earthquakes

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