

Step 2. Dig into the Problem- Milwaukee

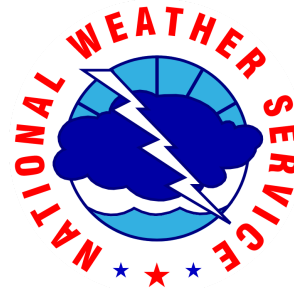
Important Vocabulary	
Design Thinking	a multi-step process of solving a problem where you imagine an ideal solution , research the problem to understand it better, revise your idea, develop a prototype, and test it
Iteration	changing your plan to make it better based on new things you learn
Prototype	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 powerpoint and Wireless Fundamentals FAQ



Wireless 101: Cellular Transmission

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



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=CtOwFde9Xcl>

Using Mobile Technology During and After Disasters



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 Storms Laboratory

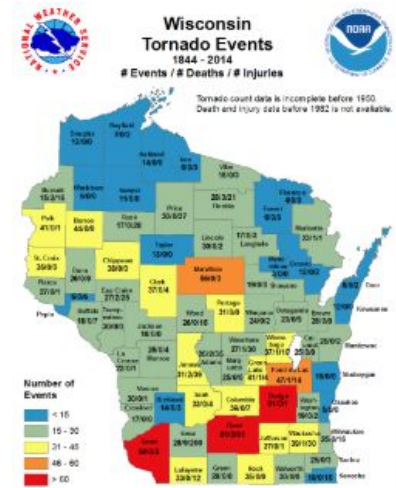
<https://www.nssl.noaa.gov/research/social/>

Milwaukee Resources



Wisconsin Emergency Management Team

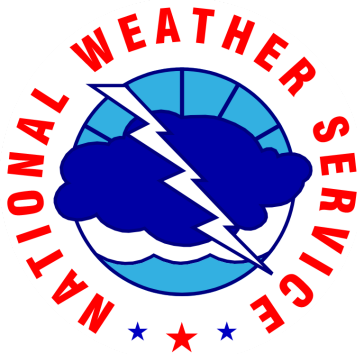
<https://readywisconsin.wi.gov/>



National Weather Service: Wisconsin Storm History Maps

https://www.weather.gov/grb/WI_tornado_stats

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National Weather Service: Milwaukee Storm History

<https://www.weather.gov/mkx/events>



Wisconsin Department of Natural Resources: Flood Plains Watershed Map*

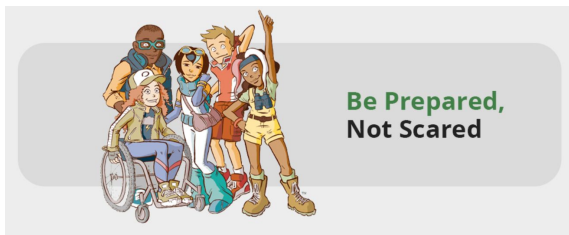
<https://dnr.wi.gov/topic/FloodPlains/documents/MilwaukeeDiscoveryPortriat.pdf>

* **Zone A & AE** are areas that have a 1% probability of **flooding** every year (also known as the "100-year floodplain"), and where predicted **flood** water elevations above **mean** sea level have been established. Properties in **Zone AE** are considered to be at high risk of **flooding** under the National **Flood** Insurance Program (NFIP) Zone A are high risk but no base flood elevations have been established.

Step 2. Dig into the Problem in Chicago, IL

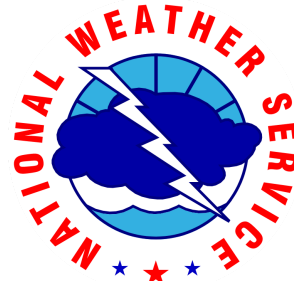
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howstuffworks

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OPENSIGNAL

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National Severe Storm Laboratory

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

Chicago Resources



Ready Illinois

<https://www2.illinois.gov/ready/Pages/default.aspx>



City of Chicago: Emergency Management and Communications

https://www.chicago.gov/city/en/depts/oem/supp_info/alertready.html



City of Chicago: Winter Preparedness

https://www.chicago.gov/city/en/depts/oem/supp_info/alertready/winter_preparedness-duringwinterstormandextremecold.html