Weather Merit Badge

Hiller Aviation Museum

Weather Conditions

Requirement 2

Name five dangerous weather-related conditions. Give the safety rules for each when outdoors and explain the difference between a severe weather watch and a warning. Discuss the safety rules with your family.



Thunderstorms



Safety during Thunderstorms

Lightning Safety



SAFE Take shelter in a hard-topped vehicle

> If you cannot get indoors or in a vehicle, go to the lowest area nearby and make yourself as small a target as possible

NOT SAFE

under a tree, on a hilltop or in an open field



Lightning is hotter than the surface of the Sun and can reach temperatures around

When Thunder Roars, Go Indoors!

50,000°F

STOP all outdoor activities

Seek shelter in a building or metal hard-topped vehicle

Wait 30 minutes after you last hear thunder to resume activities

weather.gov/lightning

Requirement 2

Thunderstorms & Aviation



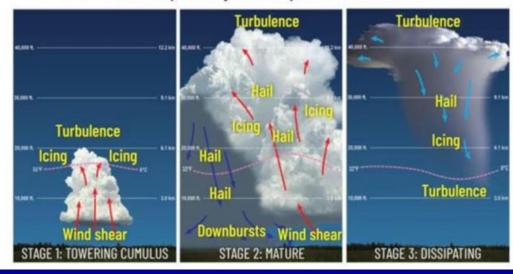


Thunderstorm life cycle & aviation safety



AVIATION WEATHER CENTE https://www.aviationweather.gov/

Each stage of thunderstorm development is associated with various aviation hazards. That's why it's dangerous to fly in and near thunderstorms.



Tornadoes



Safety during Tornadoes



Tornadoes can destroy buildings, flip cars and create deadly flying debris. If you are under a tornado warning, seek shelter immediately.

Home

Go to a safe room, basement or interior room on the lowest floor.



Stay away from windows. An exploding window can injure or kill.





Get under something sturdy, such as a heavy table or workbench.



Tornadoes & Aviation



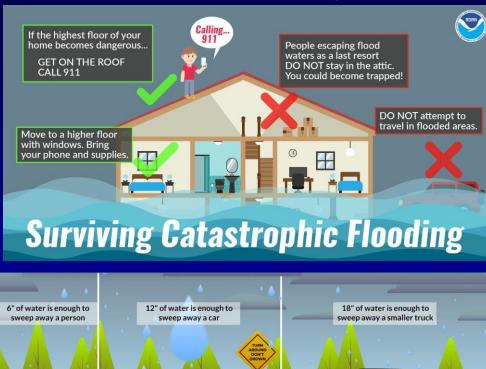




Floods



Safety during Floods





FLASH FLOOD SAFETY

TURN AROUND DON'T DROWN

Rapid flowing streams or ditches can sweep you off your feet and your vehicle downstream Remain alert if you live in flood prone areas Move to higher ground if flooding threatens Use caution at night

STAY OUT OF FLOODED AREAS Water may still be rising and very swift Do NOT allow children to play in or around flowing water Flood waters can hide rocks, trees, and debris



Flood & Aviation



Hurricanes



Safety during Hurricanes



Listen to local area radio, NOAA radio or TV stations for information. Be prepared to evacuate and know your routes and destinations.

Check your emergency kit and replenish as needed.



American Red Cross



Do not assume the storm is over if there is a lull.

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Follow instructions

to evacuate or

shelter-in-place.

Monitor updates from public safety officials.

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Turn off appliances and main breaker if power is lost.

GENERAL HURRICANE SAFETY PRECAUTIONS



Stav away from

windows and glass

features inside.

4



Draw the shades and blinds on windows and doors.

Hurricanes & Aviation



Winter Storms



Types:

- Snowstorm
- Blizzard
- Freezing Rain
- Ice Storm
- Extreme Cold
- Wind Chill



Safety during Winter Storms

Burrrr!

Stay warm outside by

changing wet clothing

frequently to prevent body heat loss.

* WINTER STORM SAFETY TIPS

- 🕸 Stay indoors as much as possible
- When going outside:
 dress warmly and stay dry
 - dress warmly and stay
 keep trips brief
 - don't ignore shivering—it's a sign your body is losing heat
- Know the symptoms of hypothermia and frostbite
- Use caution when doing activity outdoors, like shoveling snow





American Red Cross When it's freezing outdoors, stay inside if possible. Bring your pets inside too!



16 Requirement 2



Winter Storms & Aviation

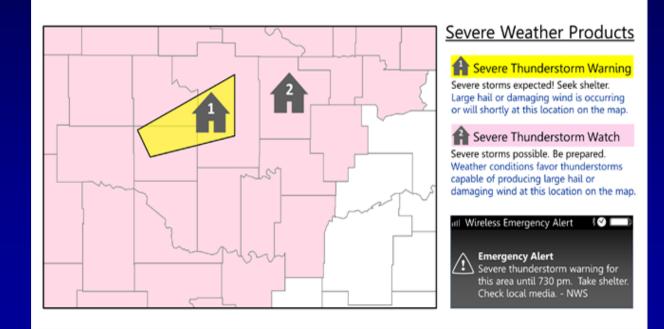






Severe Weather Watch vs. Warning

Be Prepared! versus Take Action!



Homework

Discuss the Weather Safety Rules with your family.



More information at the end of the program.