



Topic/Objective CHAPTER: 13.2

NAME:

Severe weather

Pd: 1 2 4 5 other

University of Illinois Extension

DATE

Essential Question <https://www.youtube.com/watch?v=XfPONxDMrMg>

What are the different Types of Thunderstorms?

Severe

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Following is based off the video listed above

Thunderstorms

Classify into 4 groups of Severe thunder storms

SINGLE CELL

Single Cell

- Caused by heating of the ground, which heats the air above and causes air to rise
- Produce brief rain, small hail, and some lightning
- Don't last more than 20 to 30 minutes

TRAINING CELL

Training

- Individual cells line up one behind the other
- Usually multiple cells in various stages of development
- All follow the same path
- Produce large amounts of rainfall, and may also have some hail, lightning, and possibly a weak tornado

NOTES CONTINUE ON OTHER SIDE



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SQUALL LINE

exceed 125mph
widespread
straight line
winds.

SUPERCELL

\$1 billion in
crop damage
Flash floods
↳ lots of water.

NOTE Taking AREA:

Squall Lines

Severe

- Long line of individual cells that are lined up side by side
- Associated with an advancing strong cold front
- Strong rush of wind ahead of a squall line may be present Gust Front.
- Produce brief heavy rain, lots of lightning, hail and tornadoes

Gust fronts may have wind speed of 60 miles per hour or more

Supercell

- Large, rotating storm
- Often occurs along a dry line b/t cT & mT
- Rising air may develop a rotation
- May last for hours, and move hundreds of miles
- Produce lots of rain and lightning, large hail, and may produce very strong tornadoes
- Common in the Great Plains

SUMMARY:

Severe thunder storm can produce 1 inch of hail or greater and/or wind gust to 55mph or greater.