

UNL National Weather Camp

June 10 - 14, 2024



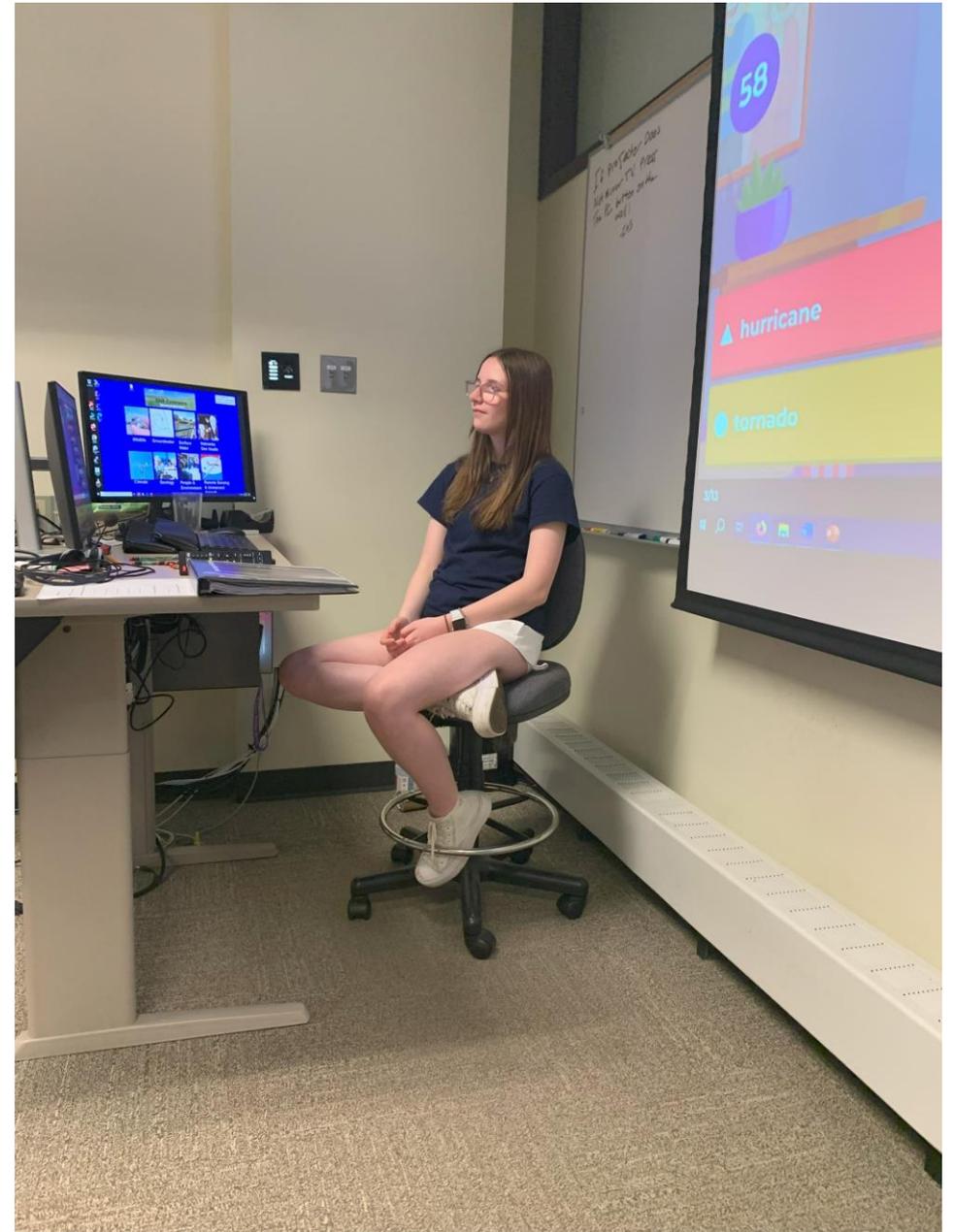
We are part of the UNL Big Red Camp program
<https://lincolnweather.unl.edu/weathercamp>

The Four Weather Camp 2024 Instructors

Sam Romshek, Nathan Gregg; Lizzie Aurit, Alexis Swanson



Weather Camp 2024 Lead Instructor: Lizzie Aurit



Weather Camp 2024: The Whole Group



Hometowns of our 2024 Weather Campers

Florida, Germany, Illinois, Iowa, Washington State, & Nebraska

**Hometowns of our Weather Campers prior to this year
in addition to the above 2024 locations**

Arkansas, California, Colorado, Kansas, Missouri, Ohio, South Dakota, Texas



**Our UNL weather campers have
come from 13 states in the U.S.
and Germany**





Weather Camp 2024
The campers ate lunch
together as a group

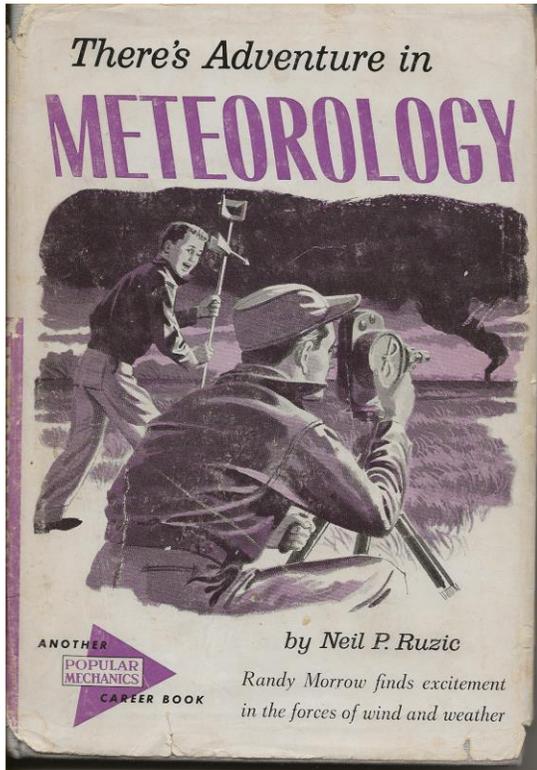
Weather Camp 2024: Playing Cards (UNO) at Lunch



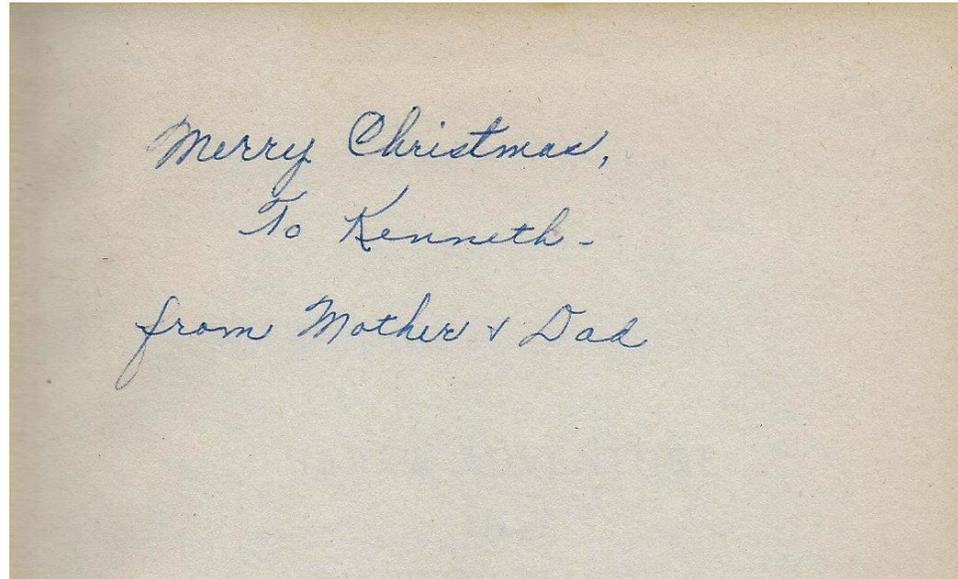


We asked the 2024 UNL Weather Campers
“How old were you when you first got really interested in weather?”

They responded: **3, 3, 4, 5, 5.5, 7, 8, 9, 10, 10, 11, 12, 15**



Me?
10



Guest Speaker, TV Meteorologist Rusty Dawkins **10**

Guest Speakers, JRB Storm Photography **8** and **8**

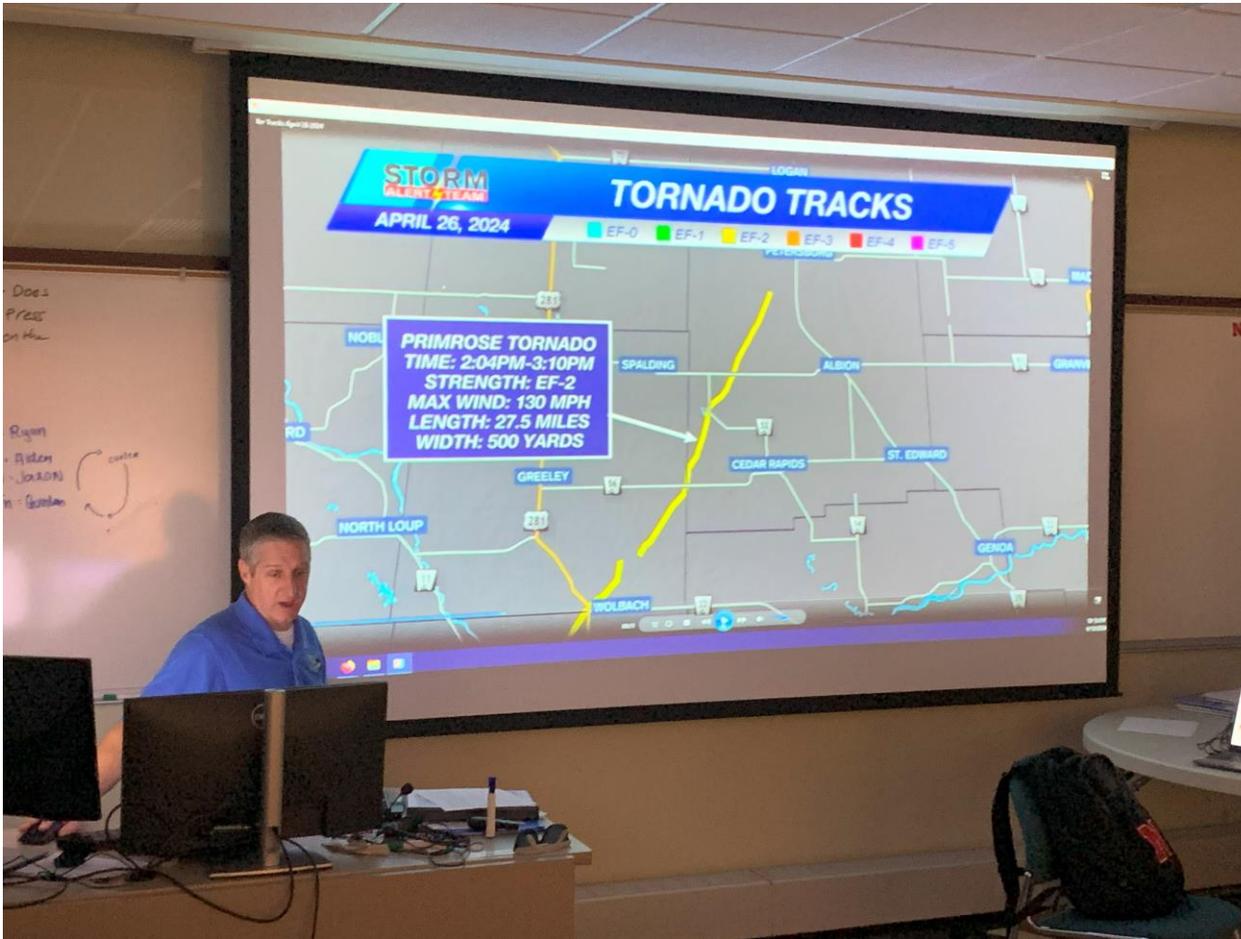
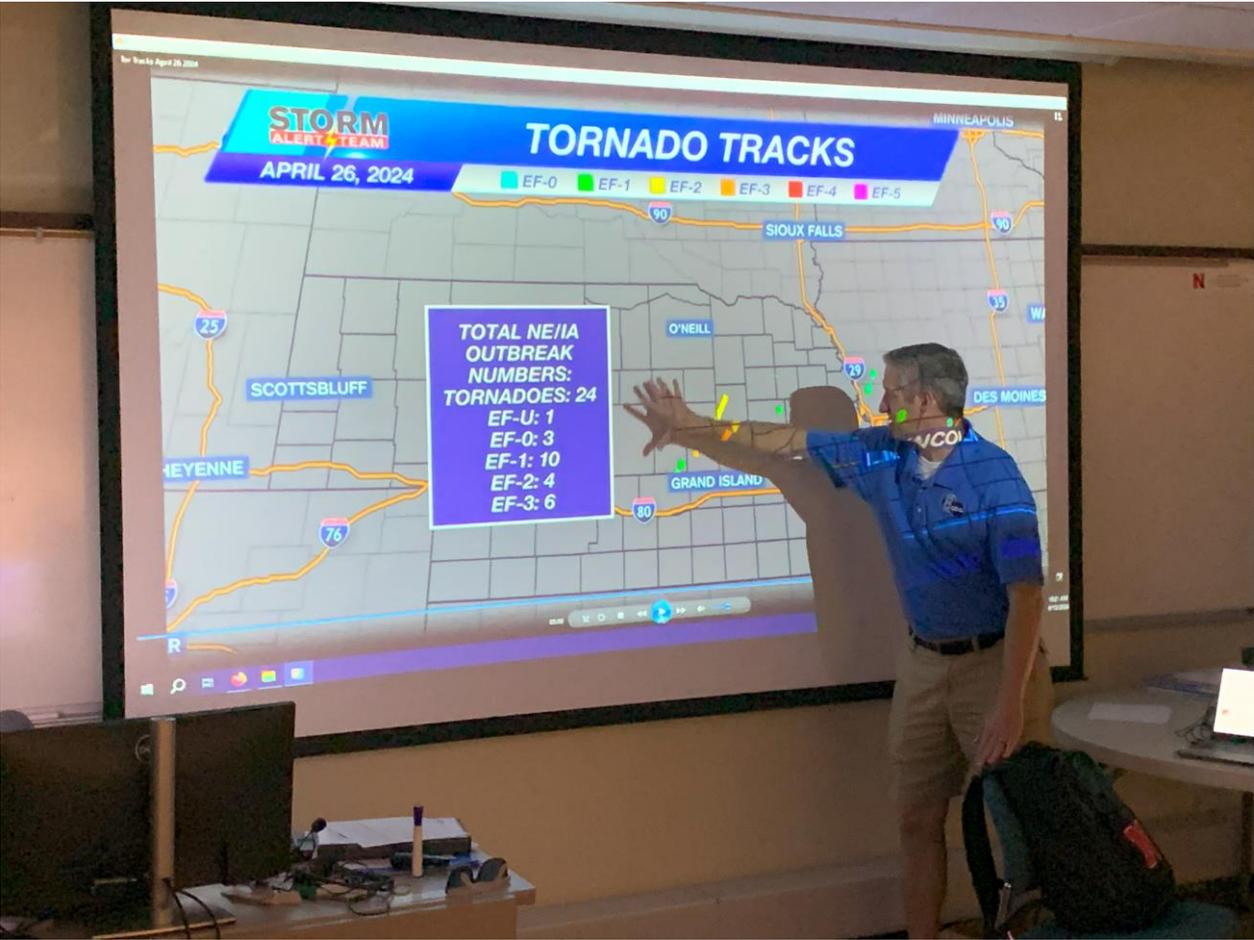
Guest Speaker Dr. Mike Hays School of Natural Resources Topic “Applied Climate Science”

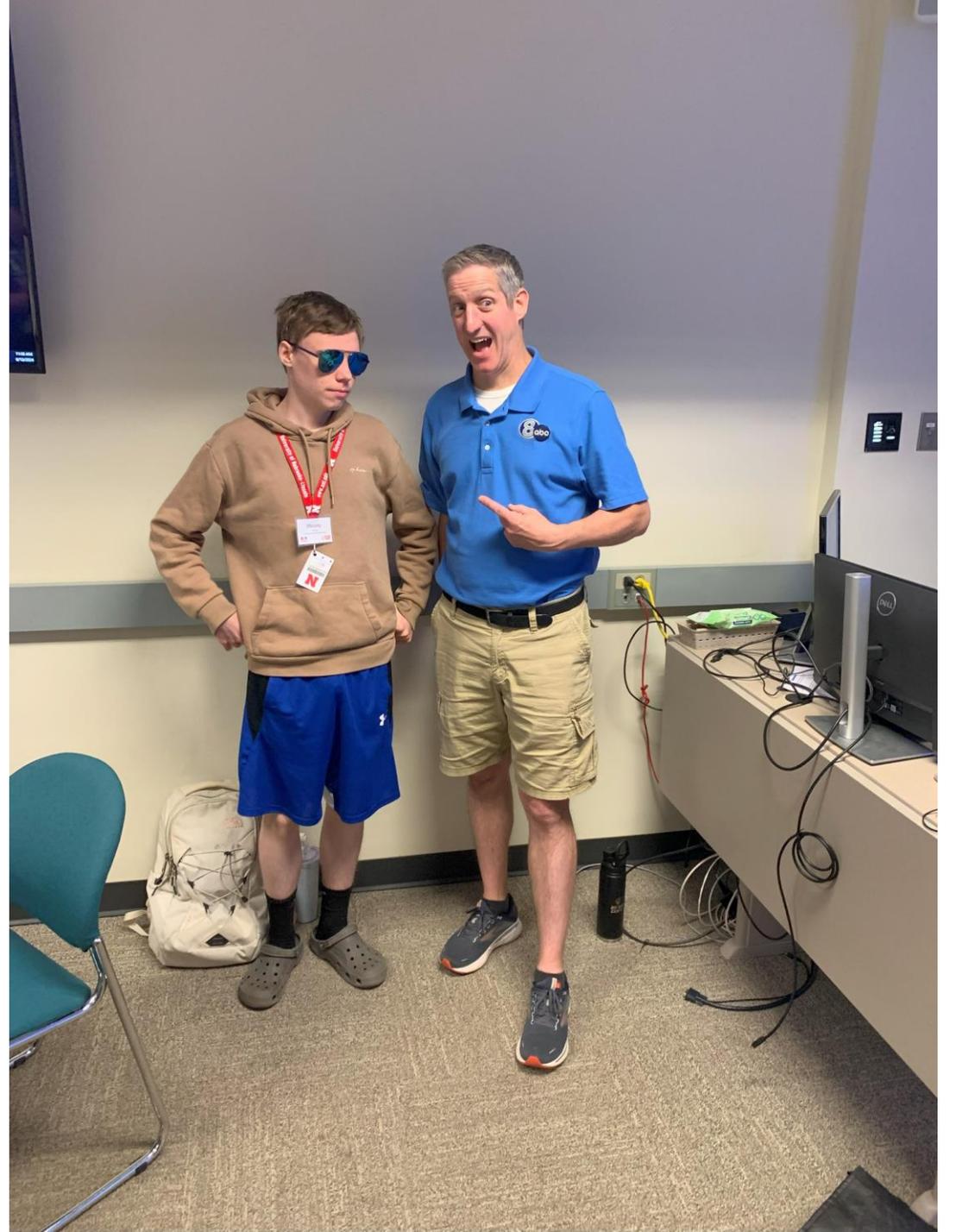


Guest Speaker Rusty Dawkins Chief Meteorologist, KLKN TV, Lincoln, NE



Guest Speaker Rusty Dawkins Chief Meteorologist KLKN TV, Lincoln





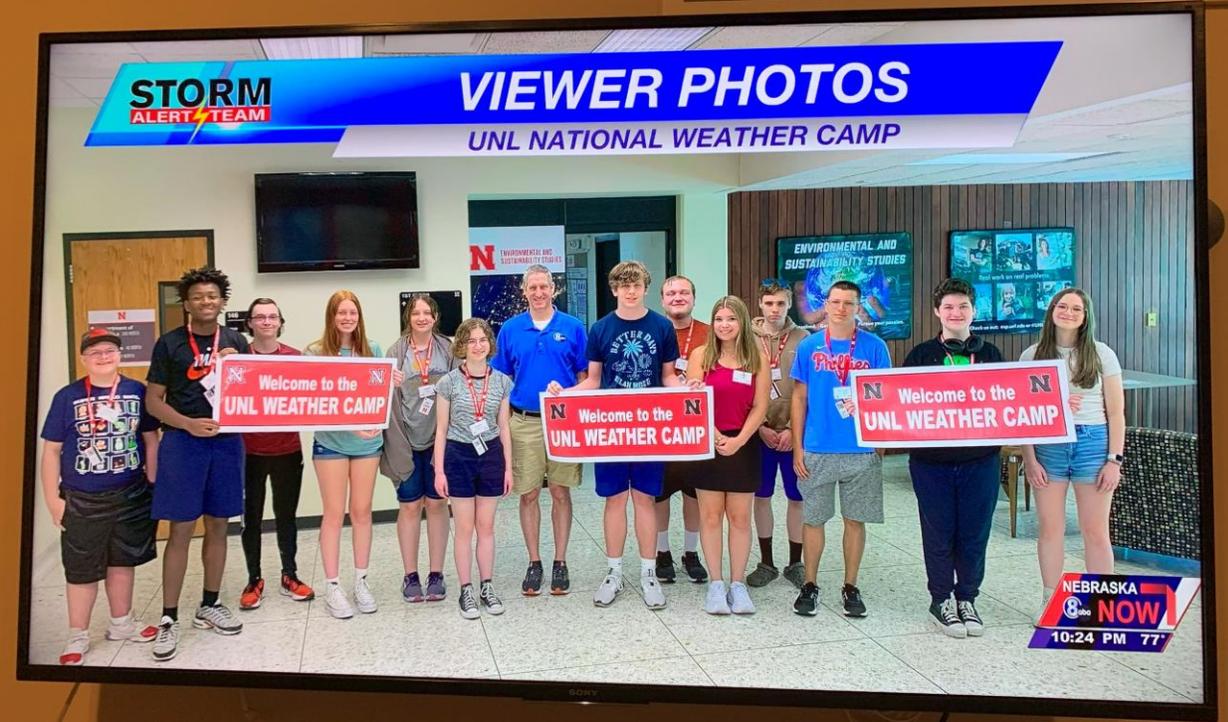






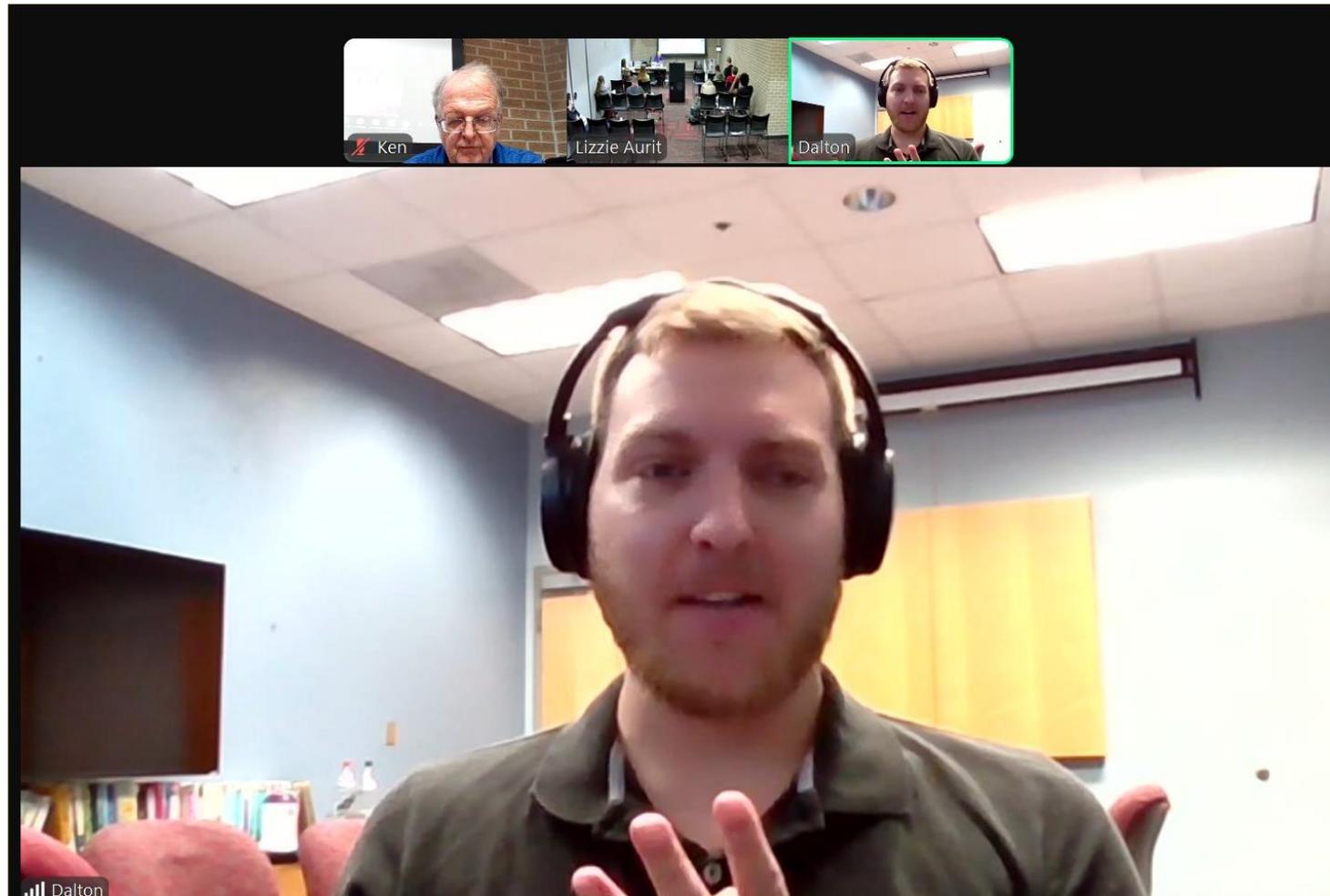


Rusty got his Meteorology degree at UNL and was a former student of Dr. Dewey, the UNL Weather Camp Director



Rusty featured our Weather Camp on his TV broadcast later that evening

Dalton, Van Stratten, former UNL Weather Camper, former UNL Weather Camp Instructor, now at the Tucson, AZ, NWS forecast office had a zoom meeting with our campers to tell them about careers in the NWS.



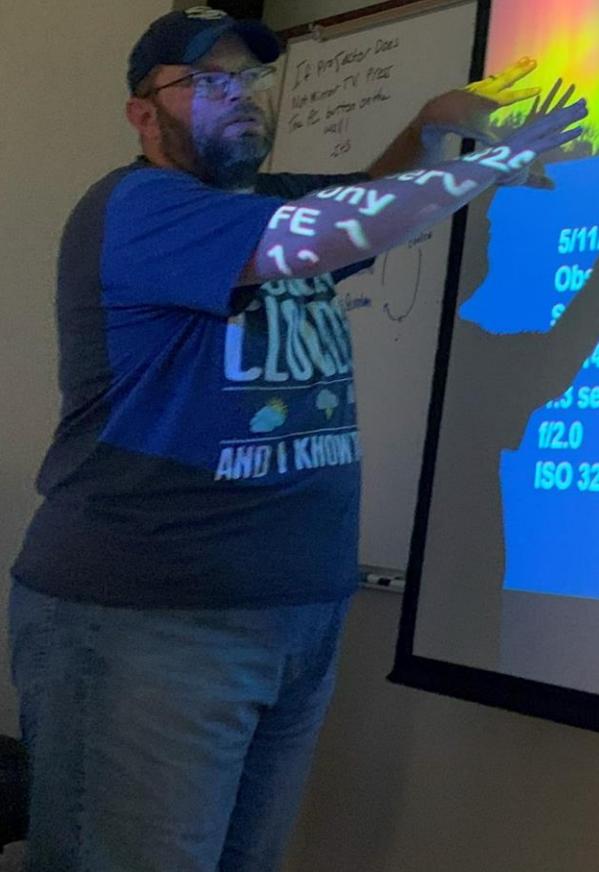


Guest Speaker Jeremy Bower Owner JRB Storm Photography

5/11/2024 -
Observatory)
Sony A1
FE 24-70mm f/2.8 GM II
2.5 sec. exposure
f/2.8
ISO 3200

5/11/2024 - Raymond, NE (Branched Oak
Observatory)
Sony A1
FE 24-70mm f/1.8 GM
2.5 sec. exposure
f/2.0
ISO 3200

The ProFactor Does
Not Know The Press
The ProFactor Does
Not Know The Press
2023



After Jeremy's presentation, we gave each Weather Camper and the instructors two photos of their choice.

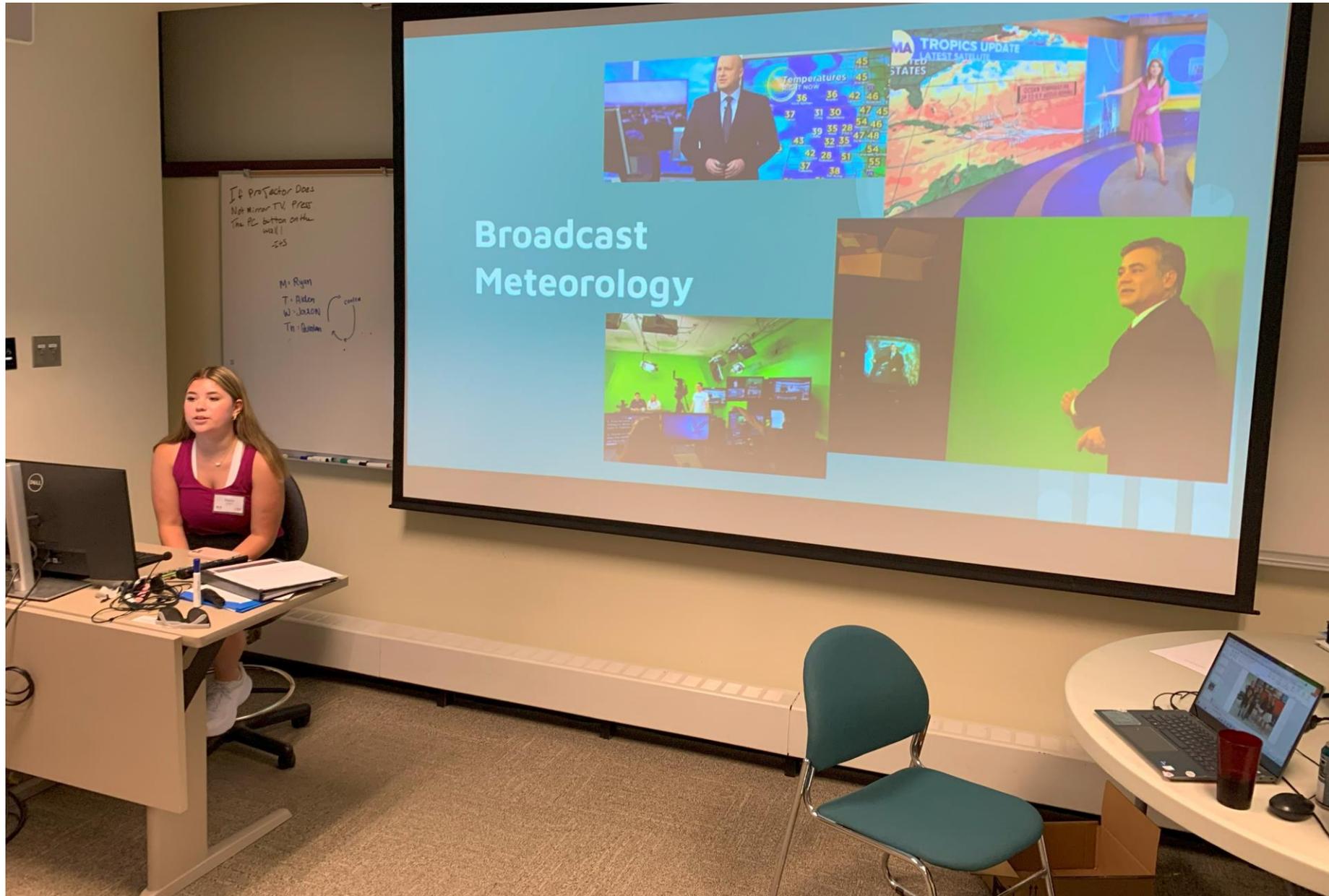




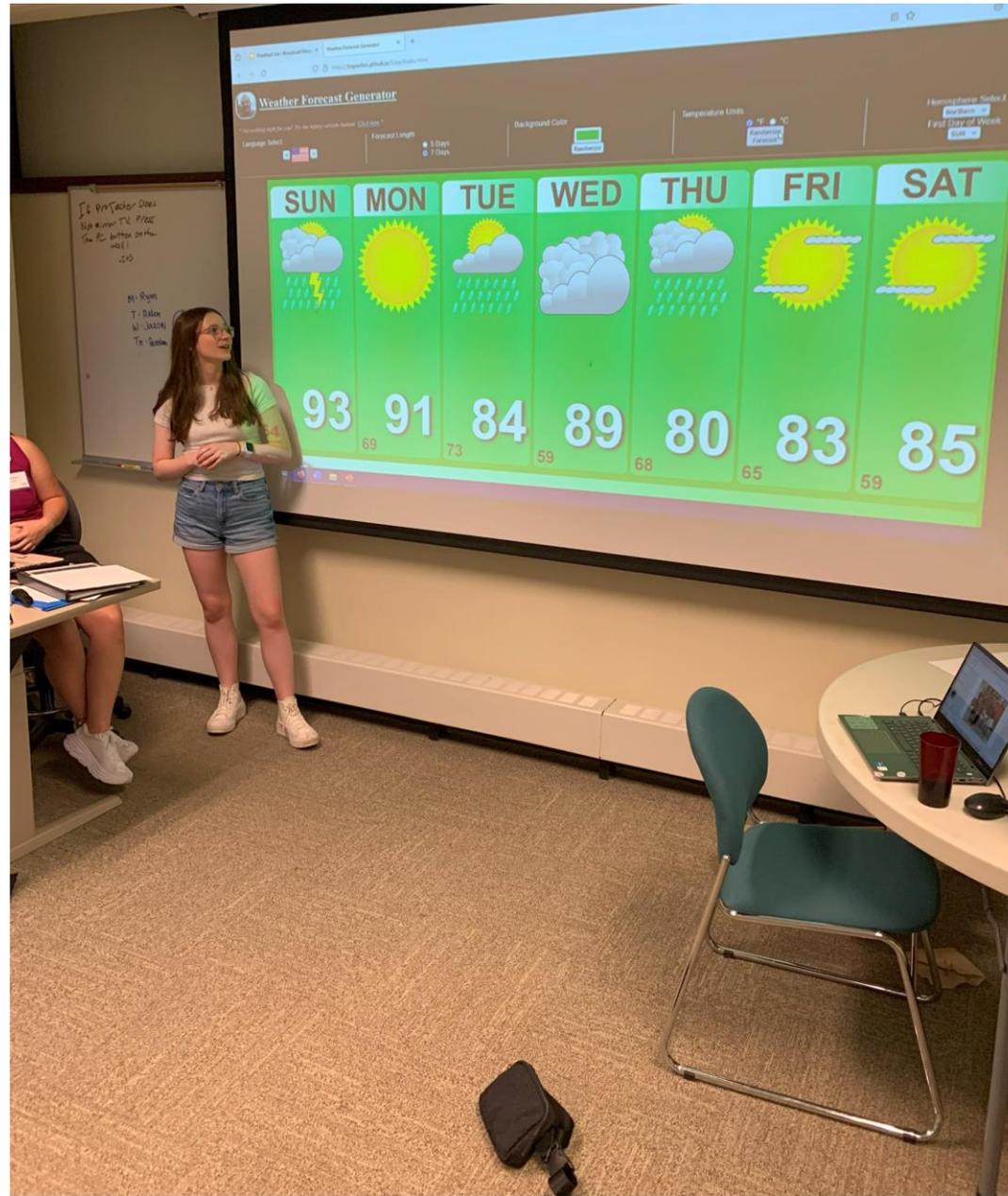
Group photo with Jeremy



Alexis gave a presentation on Broadcast Meteorology



Practicing giving a weather broadcast



We created our own tornado in the classroom



Exploring pressure with “Can Crush”



Weather Camp 2024

Conducting Experiments Outside



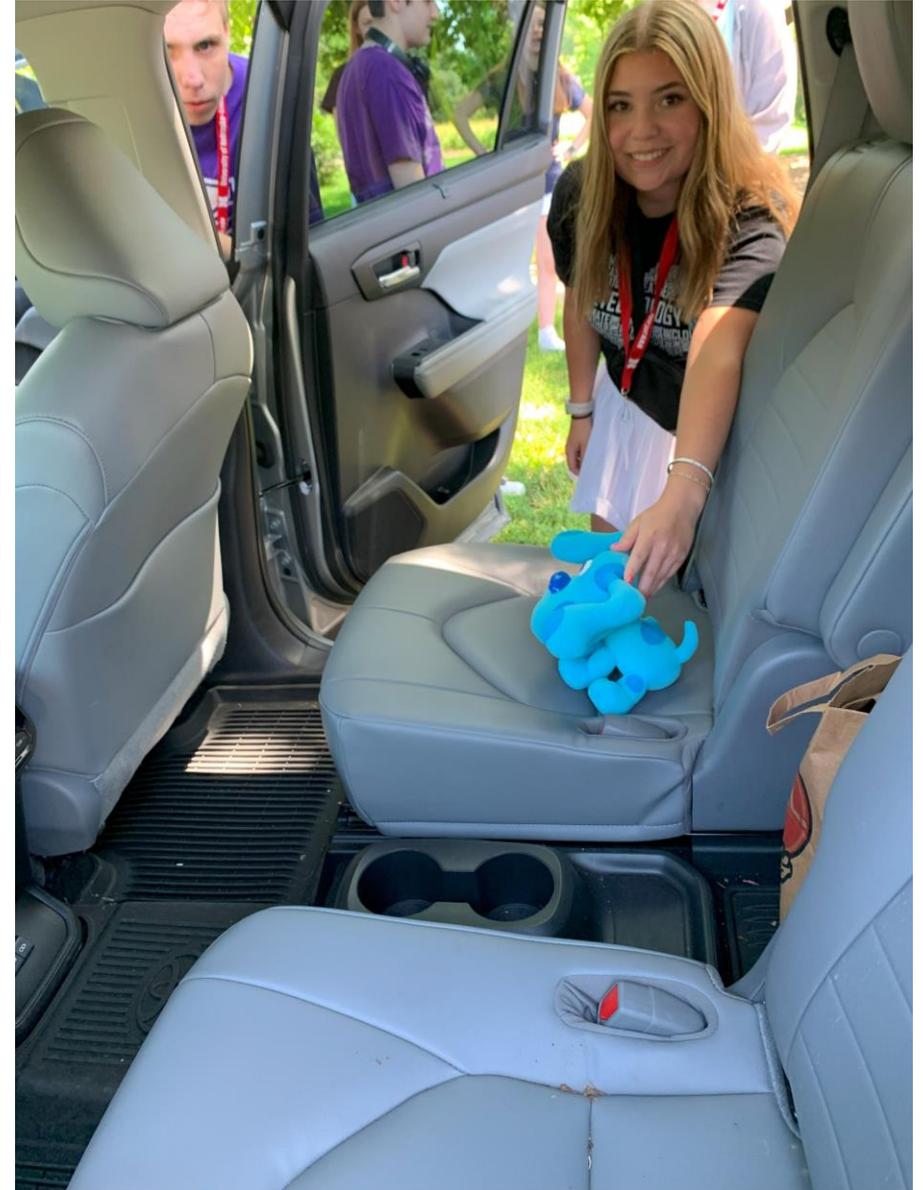


Surface of this car was 175°F



Weather Camp 2024 Experiment

How hot does it get inside a car parked in the sun?

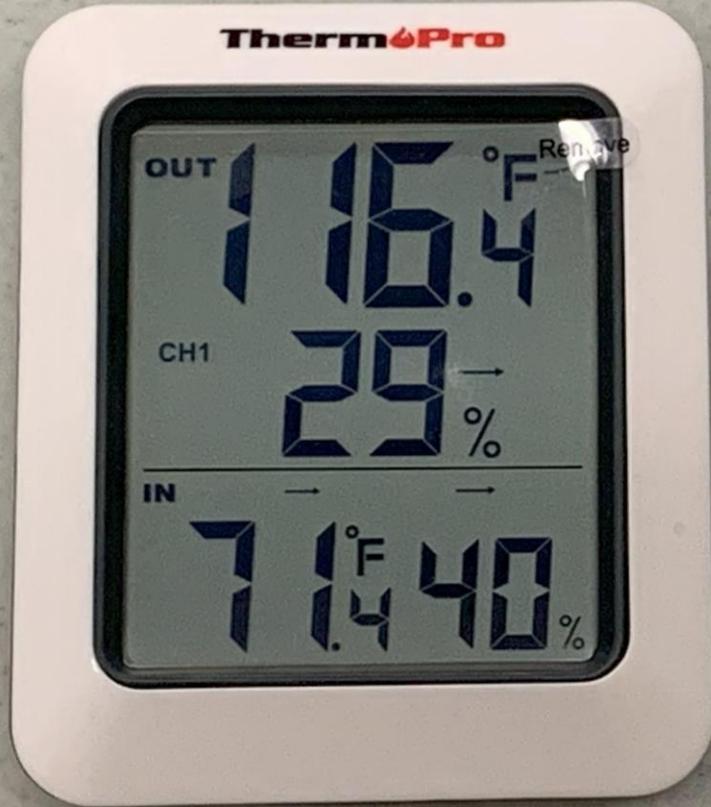




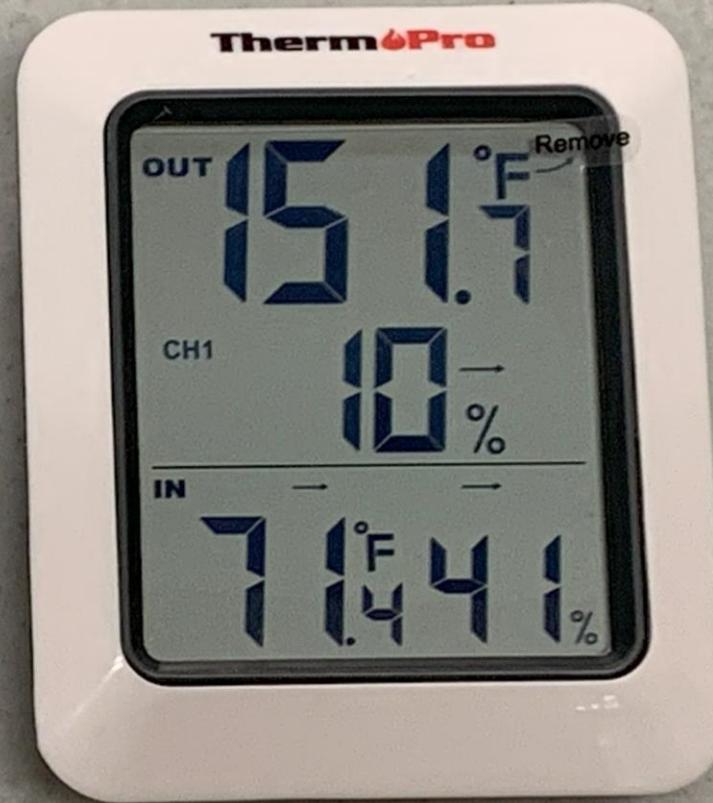
The baby is buckled in and has a remote temperature sensor in its lap



**We pretended that the dog jumped into
the front seat**

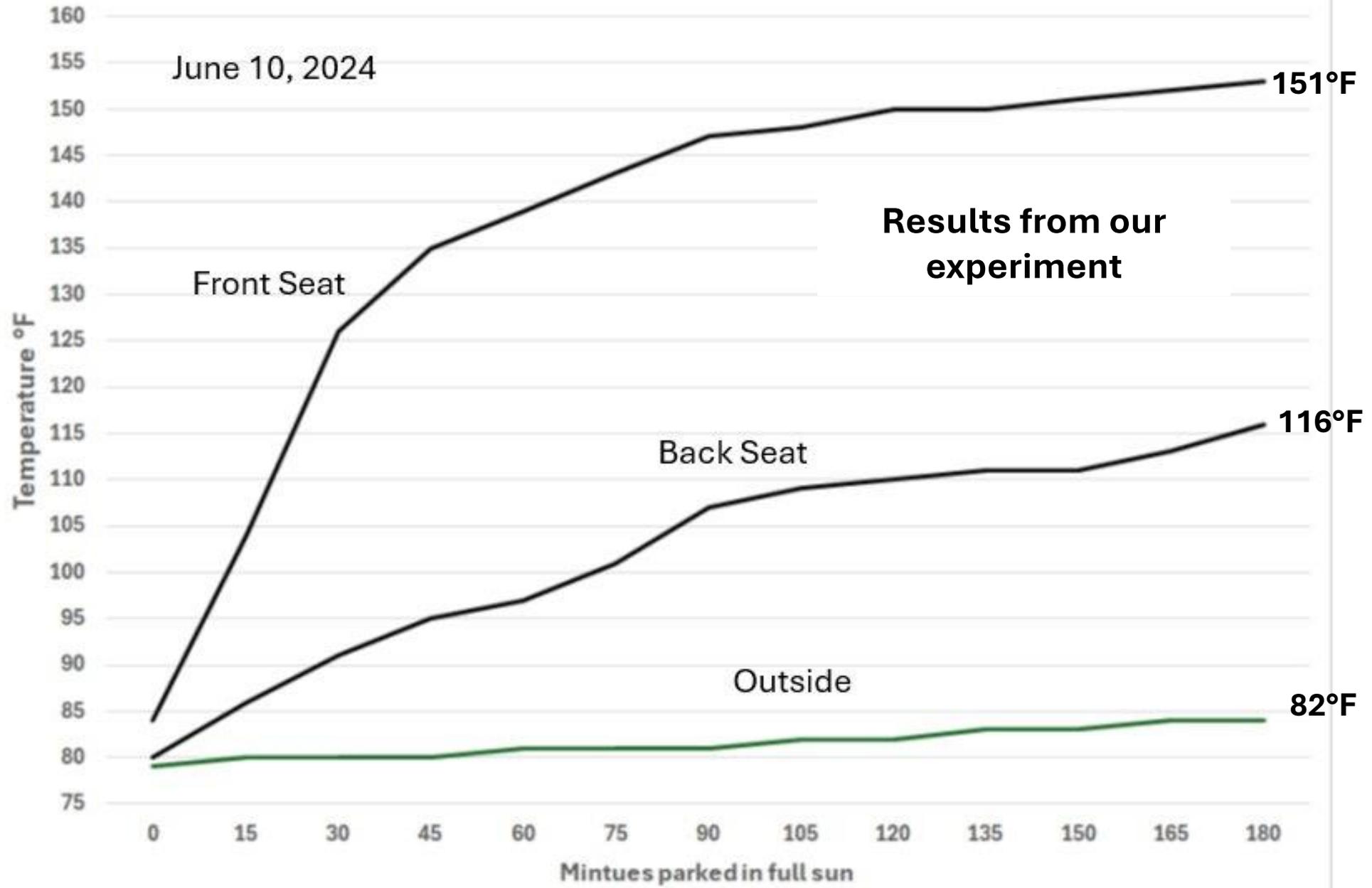


**Back seat
temperature**



**Front seat
temperature**

Temperature, Front Seat, Back Seat, Outside. Car in Full Sun



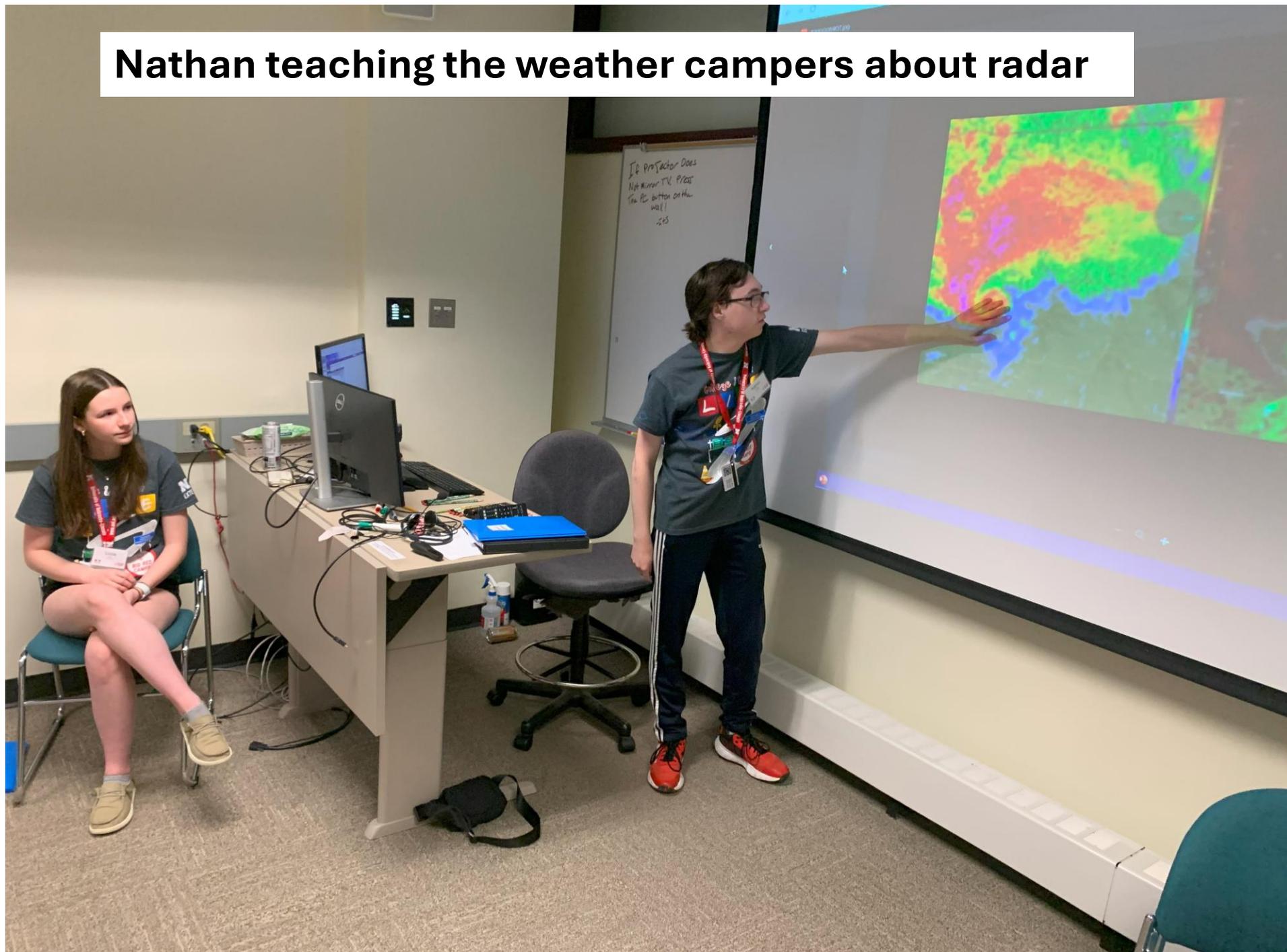
Observing the current weather conditions



Classroom experiment



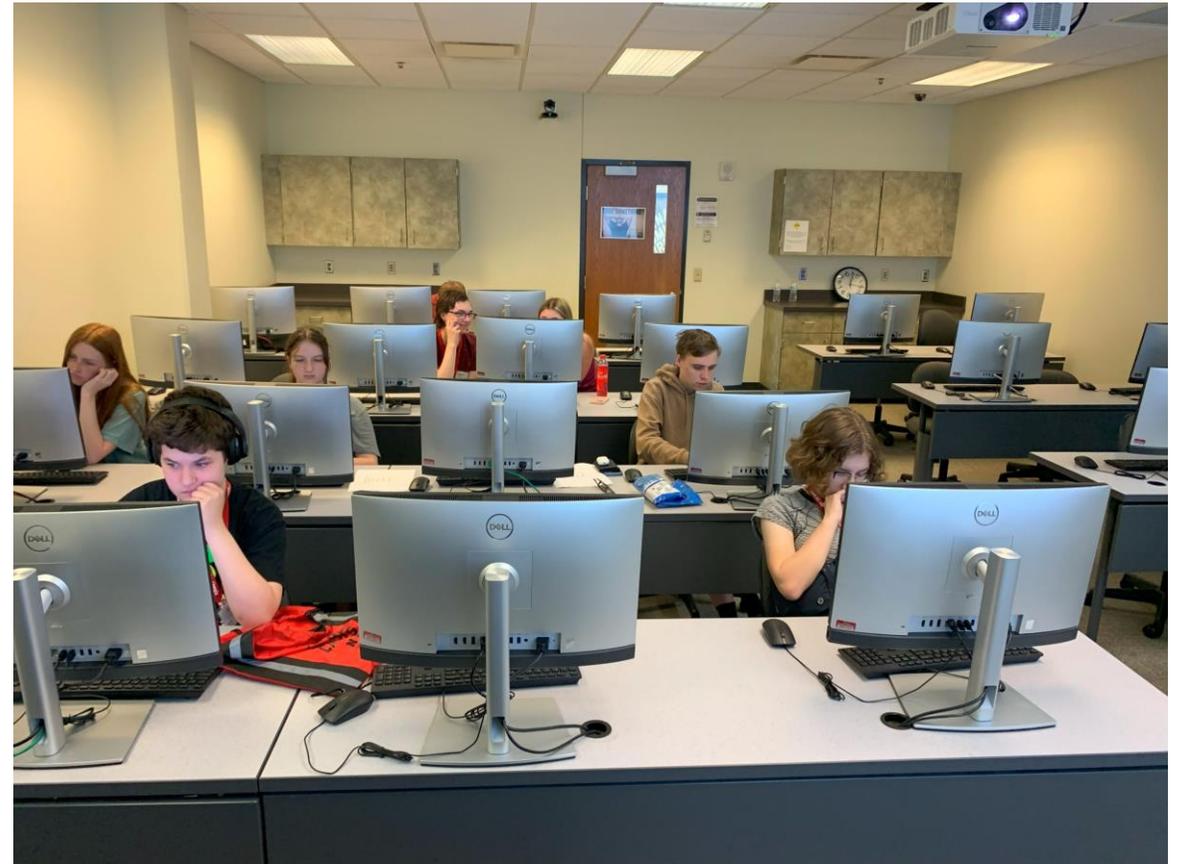
Nathan teaching the weather campers about radar



Classroom learning about clouds



**Working on their individual
research projects
in the computer lab**

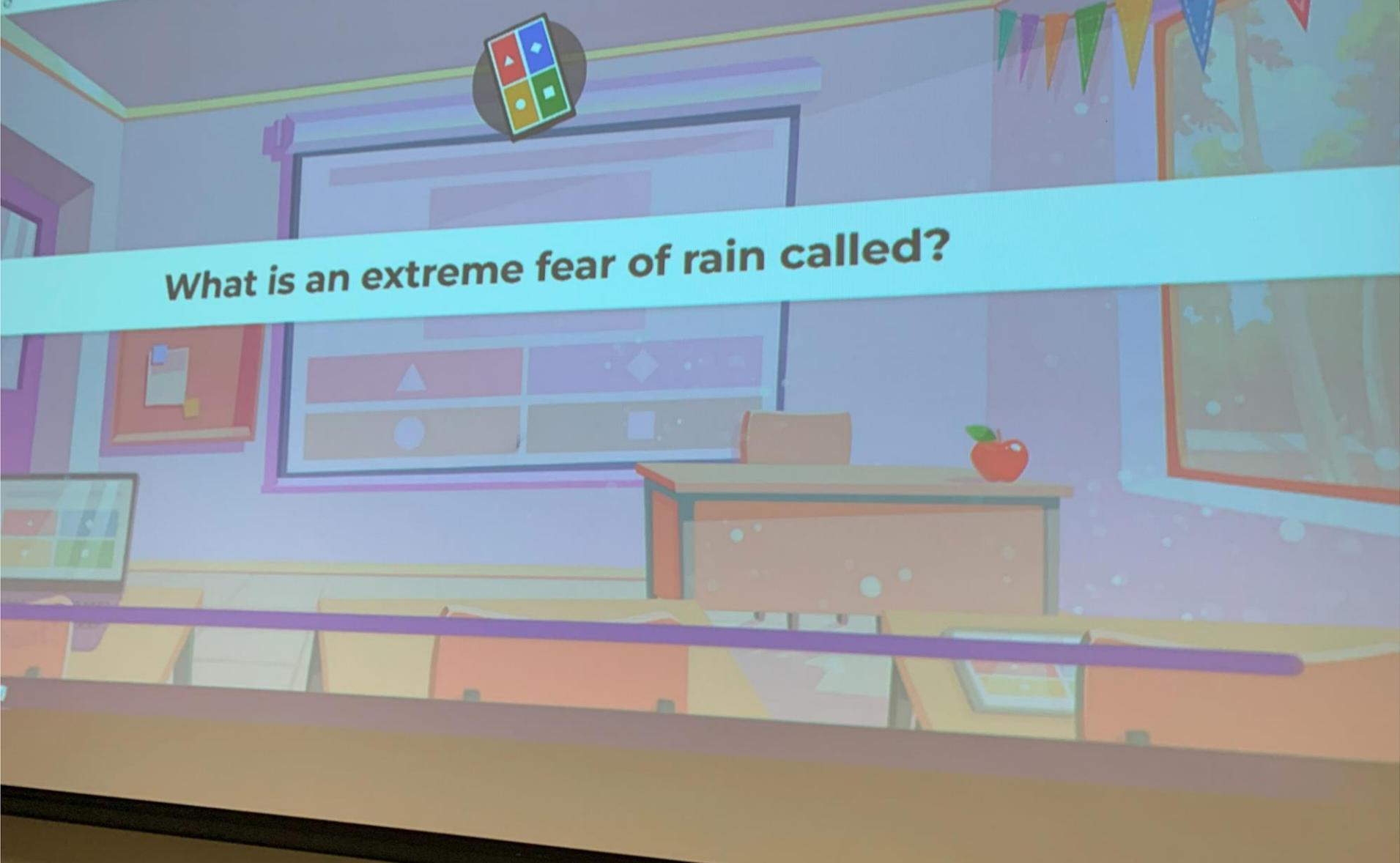


The instructors created a weather trivia game using the “Kahoots” program





What is an extreme fear of rain called?



What is an extreme fear of rain called?

18



▲ Aerophobia

◆ Ombrophobia

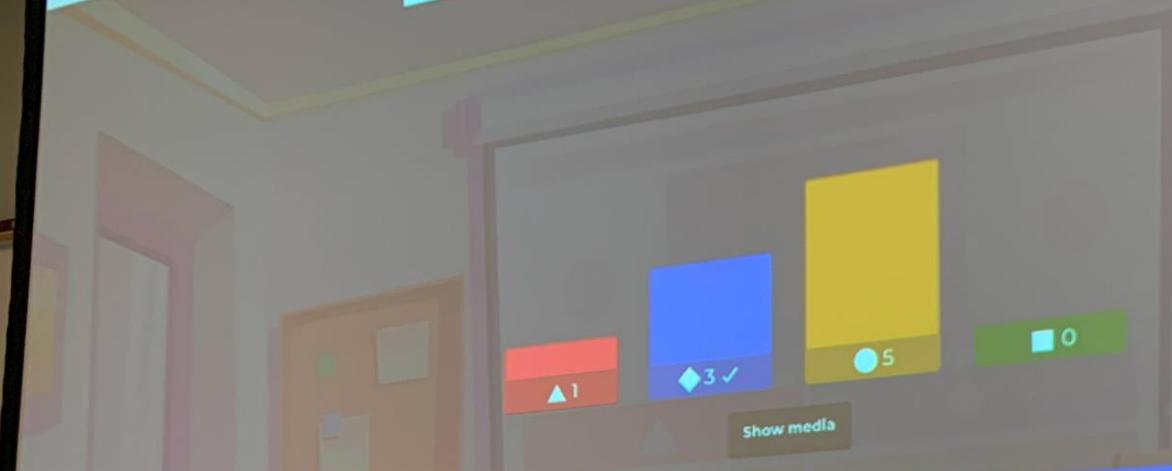
● Nephophobia

■ Panphobia

21/31

kahoot.it Game PIN: 2949517

What is an extreme fear or phobia?



▲ Aerophobia

◆ Ombrophobia

● Nephophobia

■ Panphobia



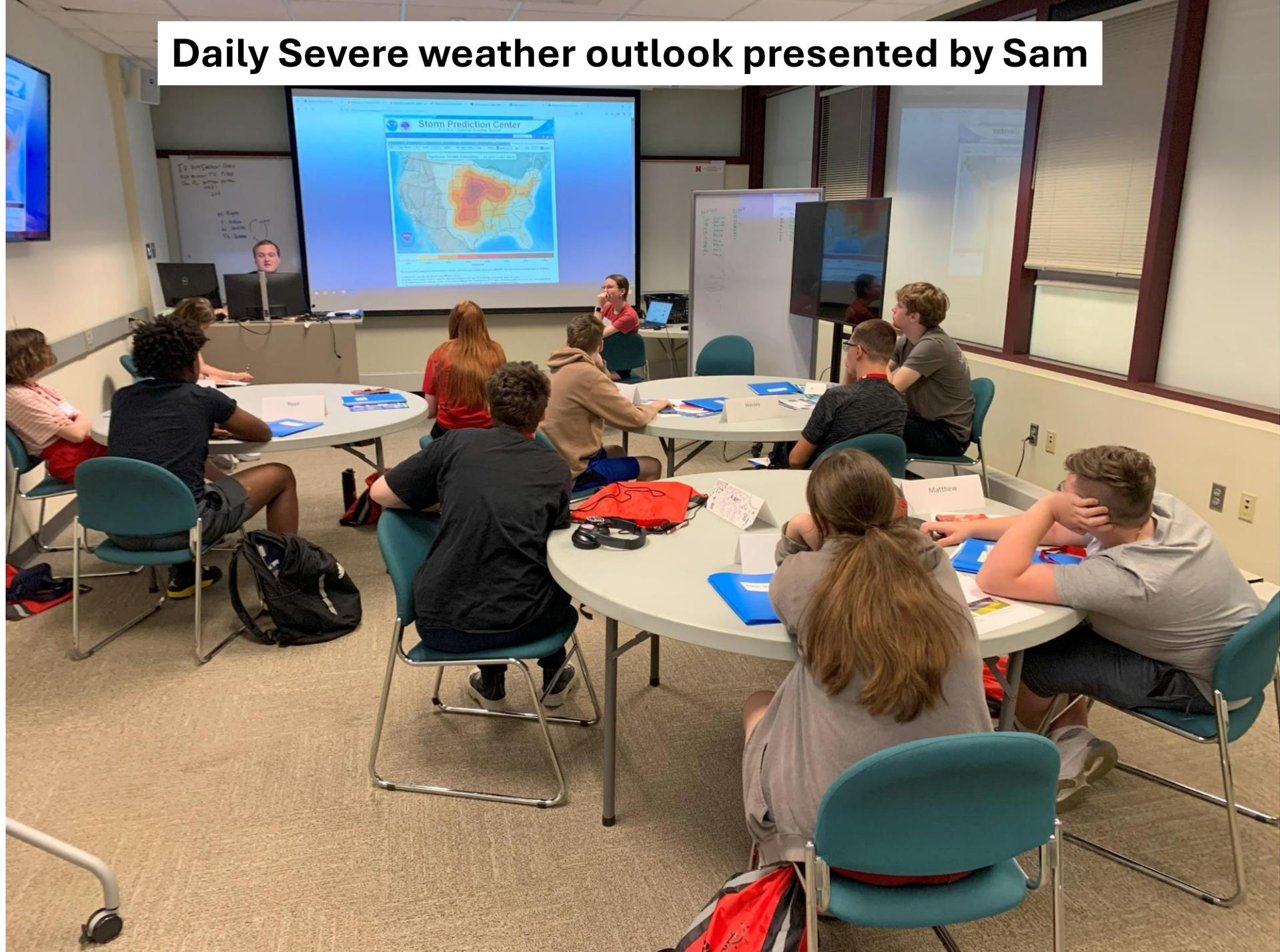
Kahoot!
Weather Trivia

2
Alyssa
13316

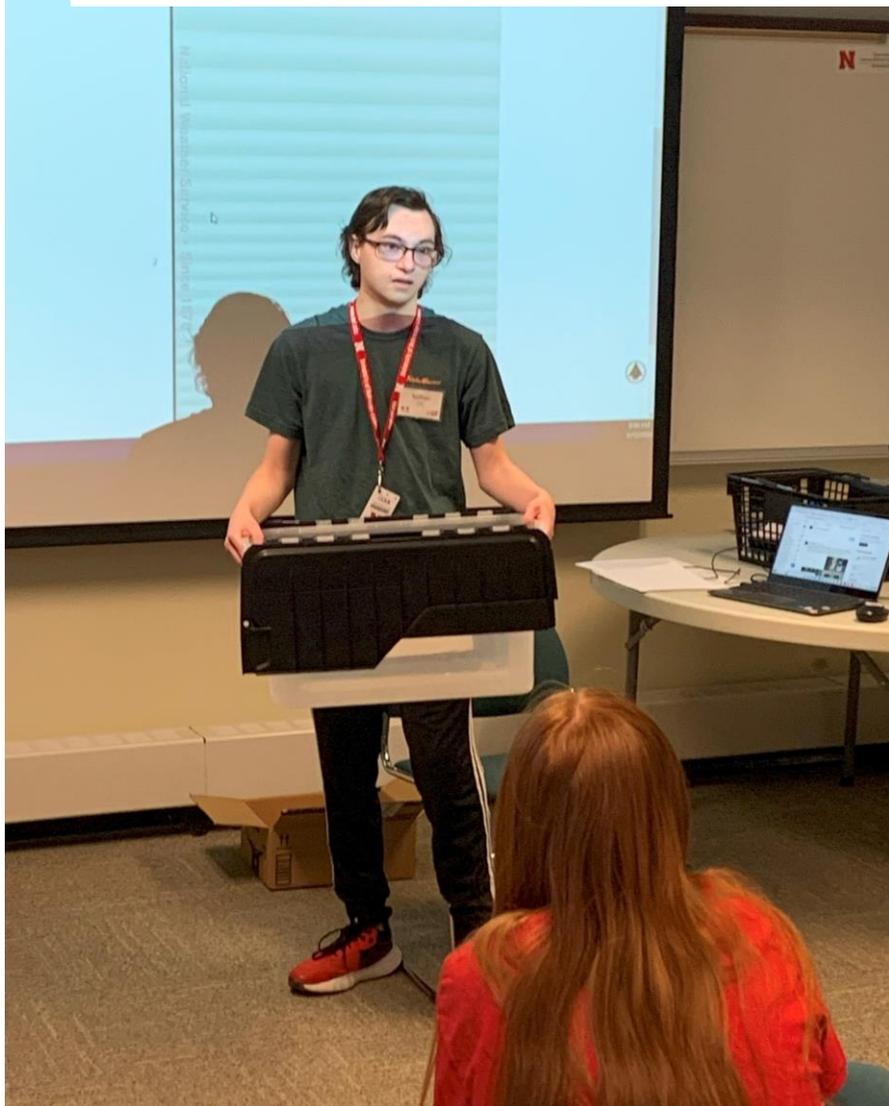
1
Ryan
13745

3
Aiden
11752

Daily Severe weather outlook presented by Sam



Nathan had several exercises about storm safety. He also had the campers work as groups to decide what valuables to store in a container to help rebuild people's lives following a disaster.

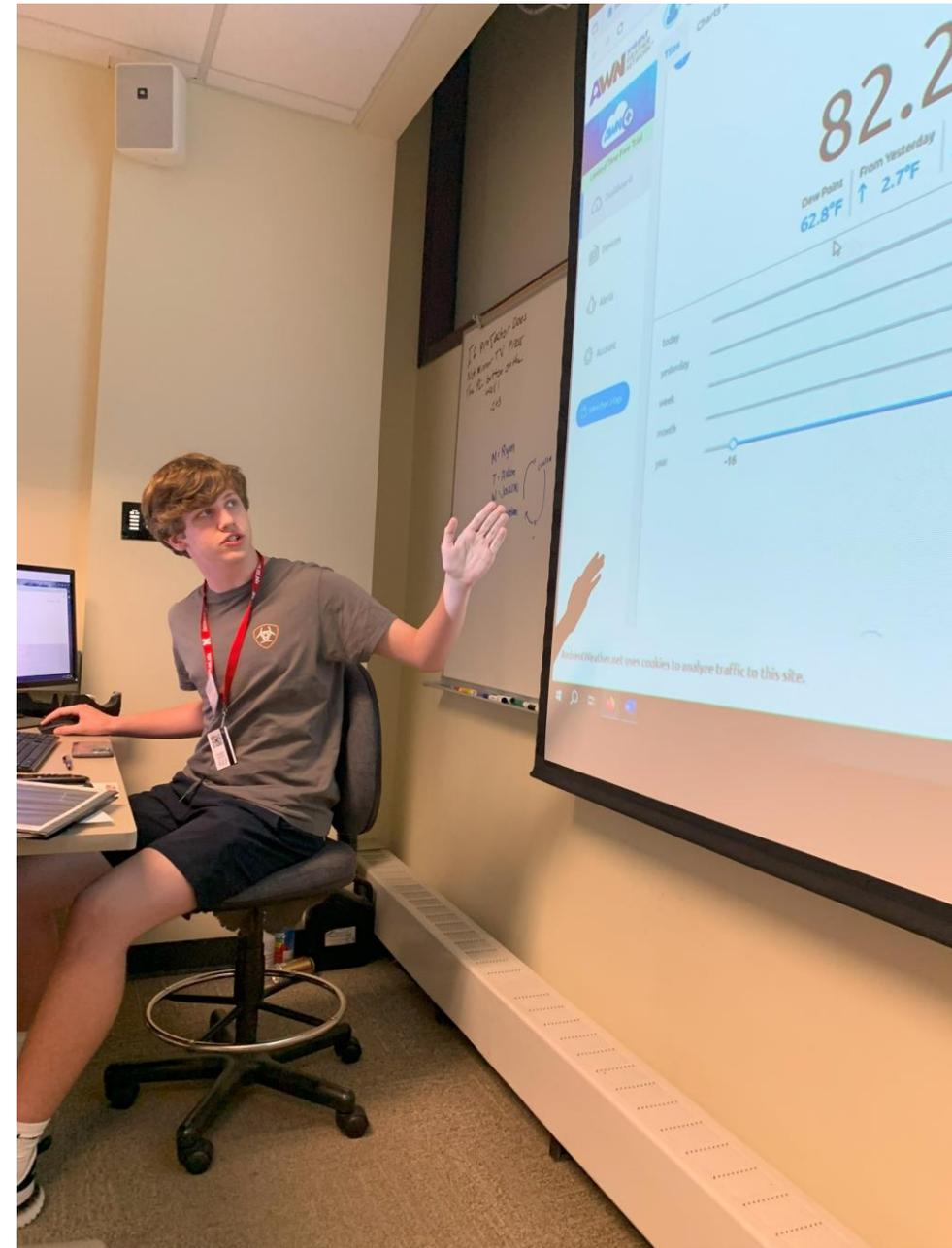


Watching storms building off to the north of Lincoln





Second year weather camper Jaxon, showing us his automated weather station at his house



An experiment to see the rate of heating by the sun on various surfaces



Demonstrating, using a flashlight, how the angle of incoming solar radiation impacts the intensity of heating at the surface



Capstone Day – Last Day of Weather Camp
The Weather Campers participated in a graduation ceremony for all of the UNL Big Red summer camps



**Our UNL Weather and Climate Summer Camp was
one of the 12 UNL Big Red Summer Camps**

Animation

Art of Teaching

Cryptography

Digital Media

Engineering

Esports

Fashion Clothing Design

Physics of Earth

STEM Odyssey

Unicameral Youth Legislature

Veterinary Science

Weather and Climate Science

Group photo of all 12 UNL 2024 Big Red Summer Camps



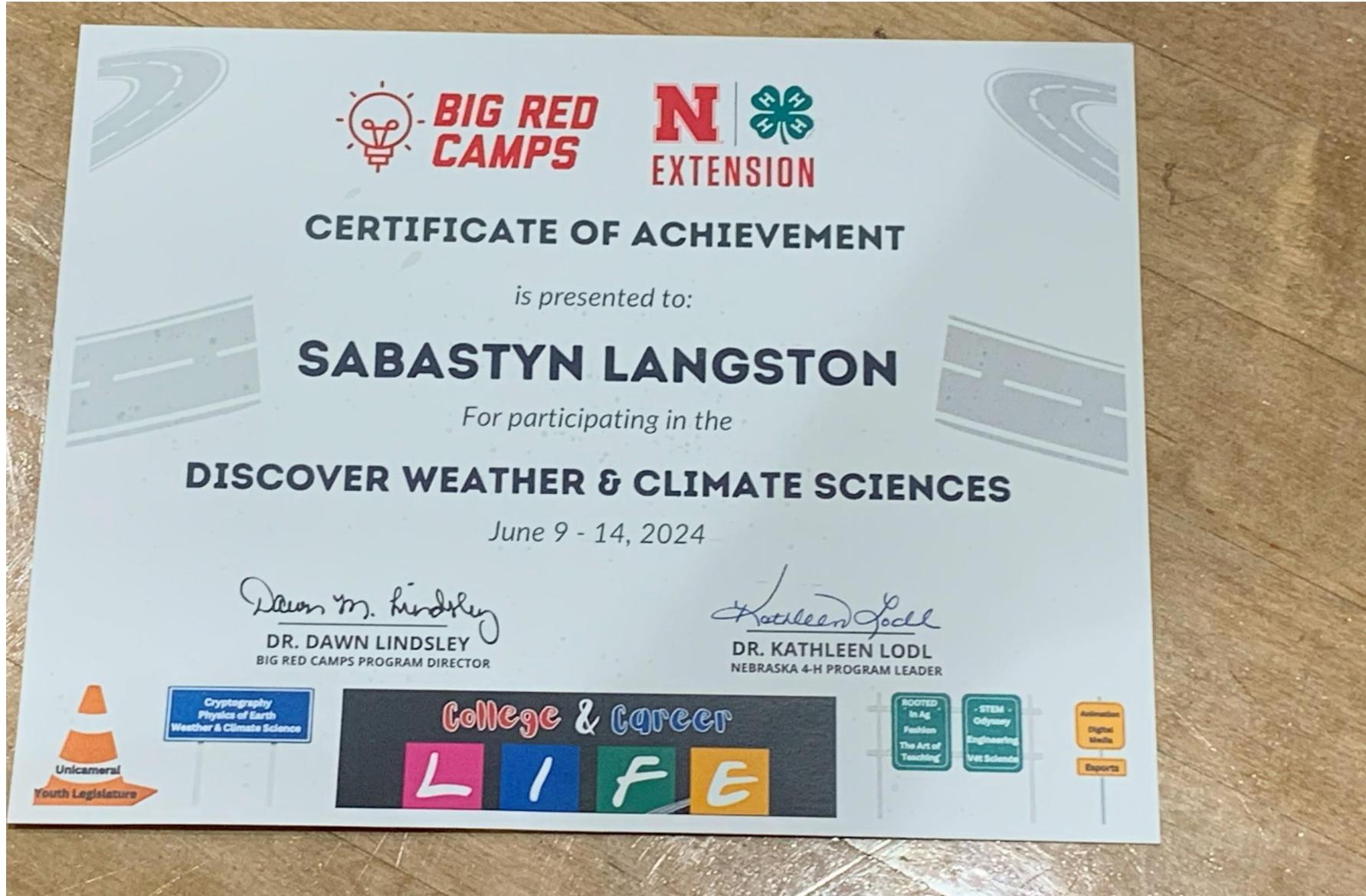
Group photo of all of the UNL Big Red Summer Camp Instructors



The UNL Weather Campers received Certificates of Achievement



Example of the UNL, Big Red Camps, 4-H, Extension certificates given to all the campers



Capstone Day

We then had our own event with the Weather Campers and their families

- 1.-Review of our week's activities**
- 2.-Campers present their research projects**
- 3.-Recognition of our four instructors**
- 4.-Completion certificates for the campers**
- 5.-Graduation gifts for the campers**

Presentation, a review of our week, by our lead Instructor Lizzie

April 26th, 2024 in Lincoln NE

Why's the car so hot?

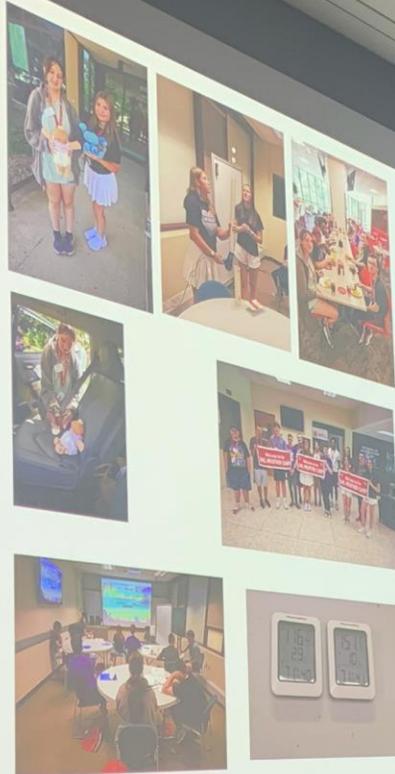


Woof woof
(womp womp)



WEATHER + CLIMATE SCIENCE '24

MONDAY



- 8:30 am - 9:00 am: Icebreakers
- 9:00 am - 9:30 am: Weather discussion
- 9:30 am - 10:15 am: Fronts
- 10:15 am - 11:30 am: Station Plots
- 12:45 pm: Where's the baby??
- 12:45 pm - 3:30 pm: Demonstrations
- 3:30 pm - 4:00 pm: Kahoot!



MONDAY



8:30 am - 9:00 am: Icebreakers

9:00 am - 9:30 am: Weather discussion

9:30 am - 10:15 am: Fronts

10:15 am - 11:30 am: Station Plots

12:45 pm: Where's the baby??

12:45 pm - 3:30 pm: Demonstrations

3:30 pm - 4:00 pm: Kahoot!

8:30 am - 9:30 am: Morning Discussion

9:30 am - 10:30 am: Radar and Discussion

10:30 am - 11:00 am: EF Scale and Severe Storms Discussion

11:00 am - 11:30 am: Severe weather database activity

12:45 pm - 1:45 pm: Mike Hayes from Applied Climate Science

2:00 pm - 3:30 pm: Demonstrations

3:30 pm - 4:00 pm: Kahoot!



TUESDAY

WEDNESDAY

8:30 am - 9:30 am: Morning Discussion

9:30 am - 10:30 am: Tornado Safety Scenarios

10:30 am - 10:45 am: Are you a tornado expert?

10:45 am - 11:30 am: Tornado Videos

12:45 pm - 2:00 pm: Tornado Simulator and Specific Heat Demonstrations

2:00 pm - 4:30 pm: Capstone Work Time



8:30 am - 9:30 am: Morning Discussion

9:30 am - 10:15 am: Broadcast Meteorology introduction and practice

10:15 am - 11:30 am: Rusty Dawkins → KLKN TV Chief meteorologist and the Husker's meteorologist

12:45 pm - 2:25 pm: Capstone Work Time

2:45 pm - 3:15 pm: Run through Capstone

3:15 pm - 4:30 pm: JRB Storm Photography

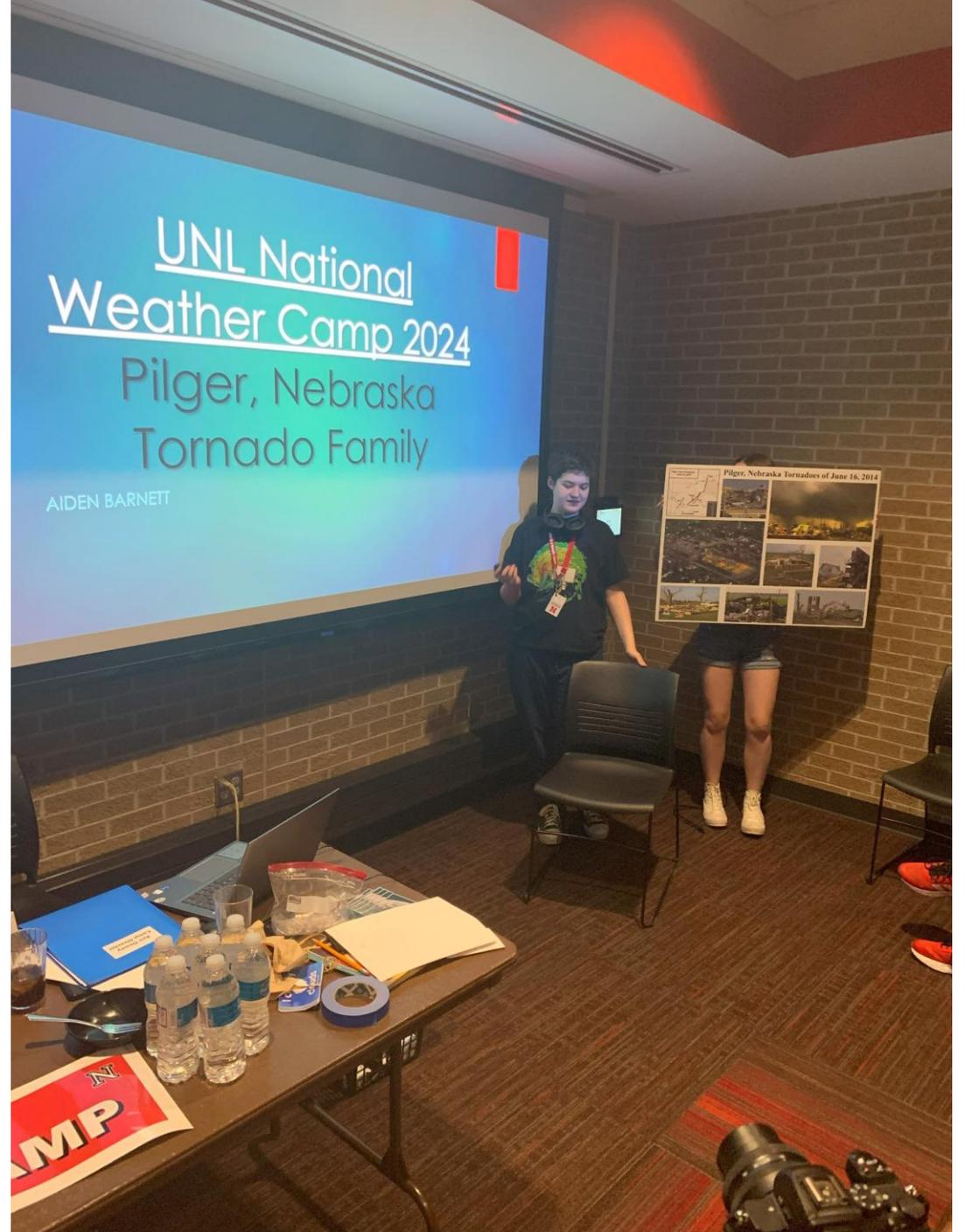


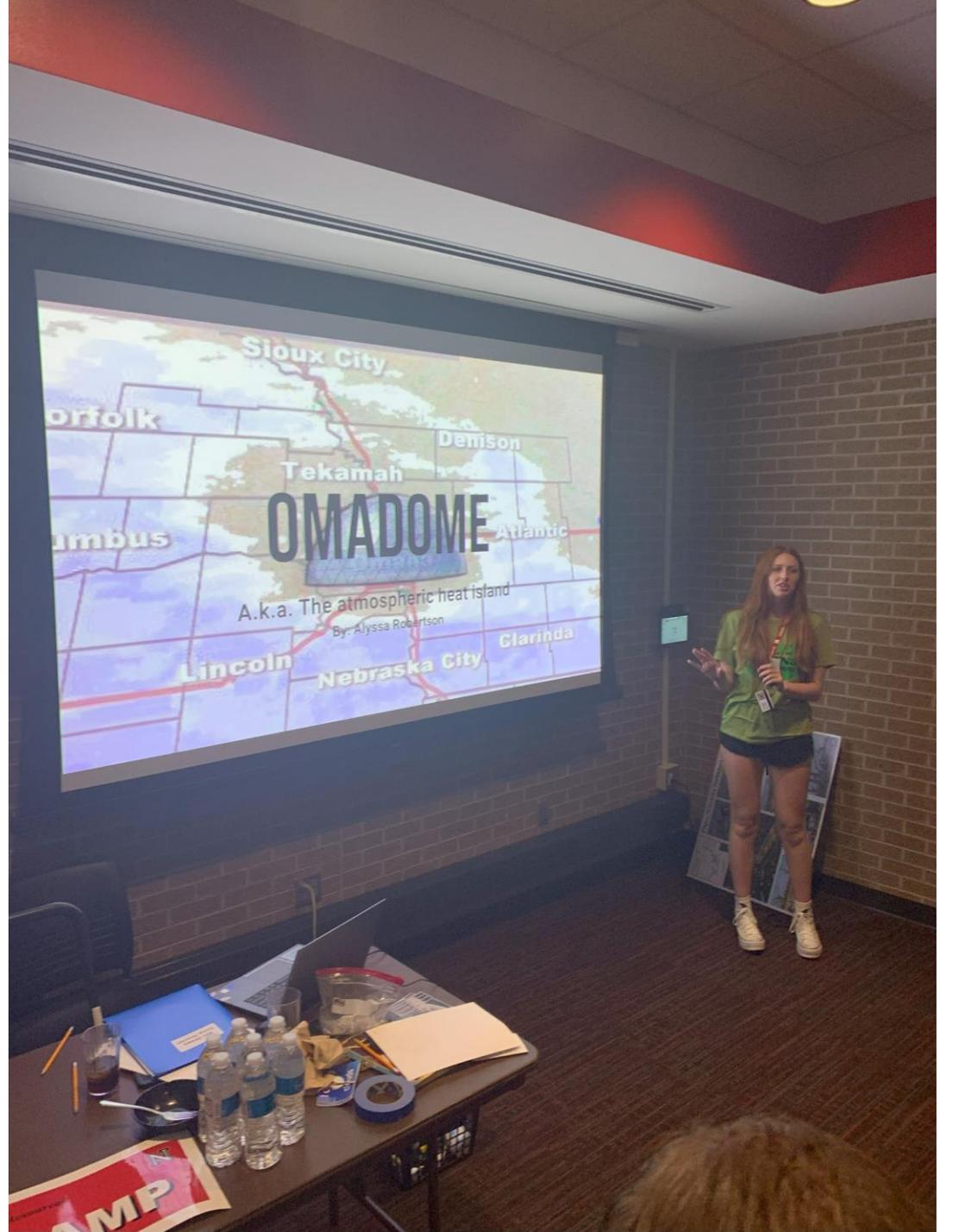
THURSDAY

Weather Camper Research Presentations

FRIDAY'S CAPSTONE PLAN

- How and why do weather systems move West to East?
- Hurricanes versus Tornadoes
- Groundhog Day
- Omadome
- Greensburg Tornado
- "Twister" Debunked
- Pilger NE Tornadoes
- Weather in Germany
- Nebraska Tornado Outbreak





Is groundhog day a reliable source of whether spring will come early, or is it just a hoax?

<https://www.noaa.gov/news/groundhog-day-forecast-2024>

Climate prediction center

Groundhog day is a day in february where one day of the year: a groundhog is let out of his hole and if he sees his shadow, allegedly, spring will come late and if he doesn't see his shadow, spring will come early. Groundhog day originated from the superstition that if a groundhog emerges during the day and sees his shadow, it will retreat back to its hole and hibernate for six more weeks; if it doesn't see its shadow, spring will come early.



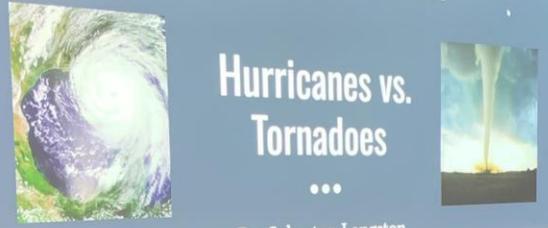
CAMP

Water bottles, papers, and other items on a table in the foreground.

UNL National Weather Camp June 2024

Hurricanes vs. Tornadoes

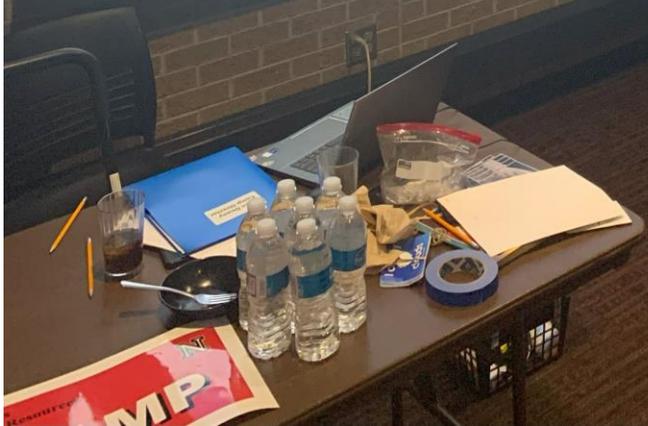
By: Sabastyn Langston



CAMP

Water bottles, papers, and other items on a table in the foreground.

UNL National Weather Camp
2024. April 26th, 2024
Tornadoes
Matthew Sears



Thanking our Weather Camp instructors with a Certificate of Appreciation. Alexis was unable to be with us at the Capstone event, but she was recognized at a later time.



June 9 - 14, 2024



The University of Nebraska-Lincoln
proudly recognizes

Lizzie Aurit

as an Outstanding Lead Instructor



Sponsored by UNL Department of Earth & Atmospheric Sciences, Nebraska 4-H,
Nebraska Extension, UNL Geography and UNL School of Global Integrative Studies

June 9 - 14, 2024



The University of Nebraska-Lincoln
proudly recognizes

Sam Romshek

for being an Outstanding Weather Camp Instructor



Sponsored by UNL Department of Earth & Atmospheric Sciences, Nebraska 4-H,
Nebraska Extension, UNL Geography and UNL School of Global Integrative Studies

June 9 - 14, 2024



The University of Nebraska-Lincoln
proudly recognizes

Alexis Swanson

for being an Outstanding Weather Camp Instructor



Sponsored by UNL Department of Earth & Atmospheric Sciences, Nebraska 4-H,
Nebraska Extension, UNL Geography and UNL School of Global Integrative Studies

June 9 - 14, 2024



The University of Nebraska-Lincoln
proudly recognizes

Nathan Gregg

for being an Outstanding Weather Camp Instructor



Sponsored by UNL Department of Earth & Atmospheric Sciences, Nebraska 4-H,
Nebraska Extension, UNL Geography and UNL School of Global Integrative Studies

In addition to receiving a certificate of appreciation, each of the Weather Camper Instructors was given a barometer, a National Geographic book, the Nebraska Twister bottle, and a Weather Channel drink Koozie



Each of the Weather Campers got a graduation certificate



June 9 - 14, 2024



The University of Nebraska-Lincoln
proudly recognizes

Jaxon Trotter

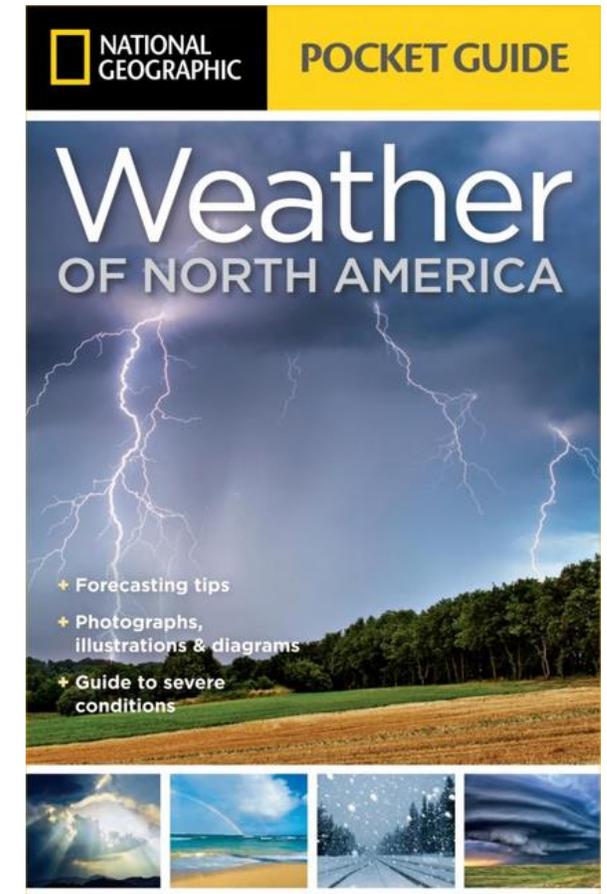
for being "**Weather Wise**"



Sponsored by UNL Department of Earth & Atmospheric Sciences, Nebraska 4-H,
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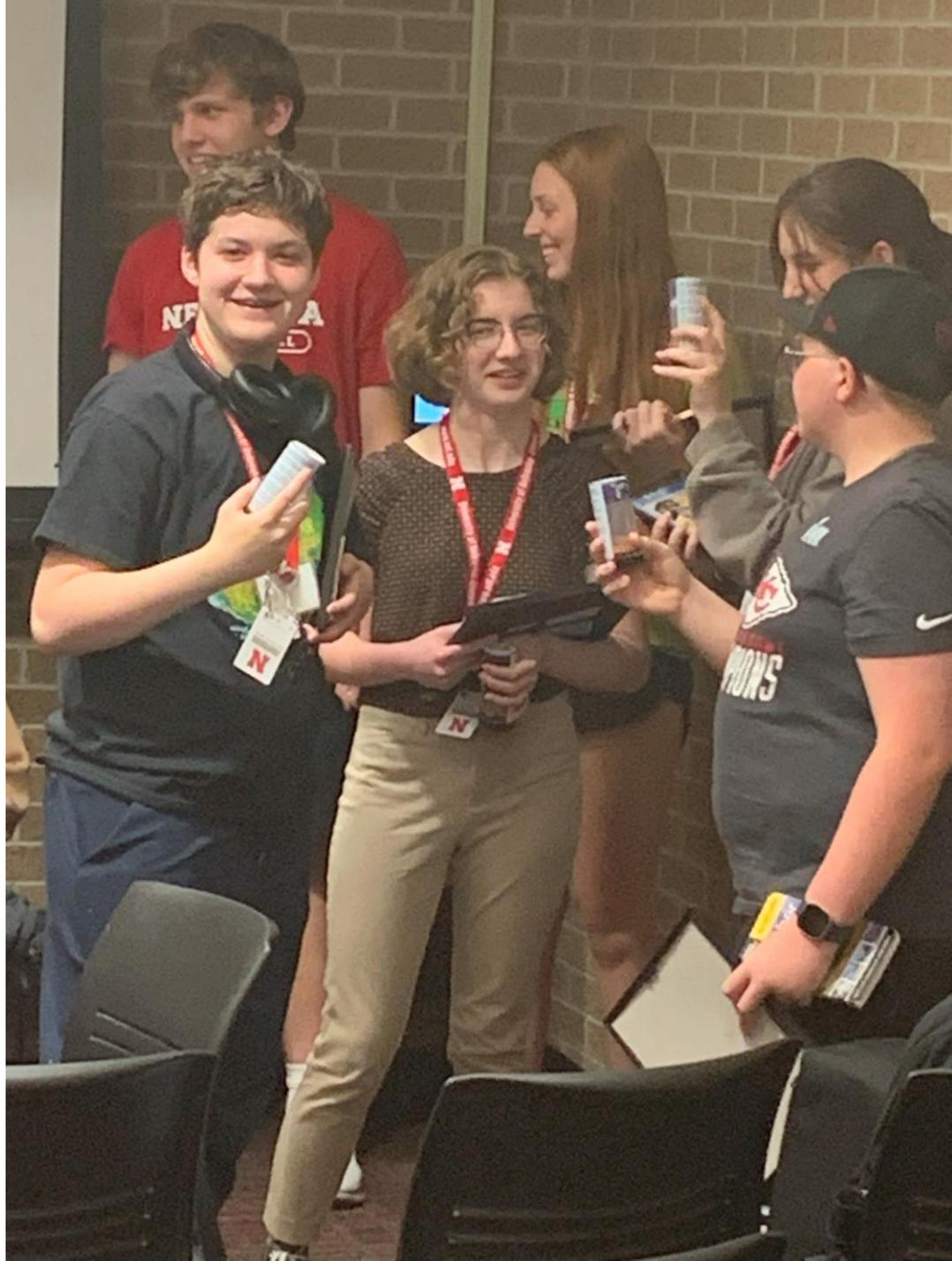
**Example of the Weather Camp
graduation Certificate**

We gave each Weather Camper a book “National Geographic Pocket Guide, Weather of North America”



We gave each Weather Camper a “Tornado in a bottle” with a “Nebraska Twister Weather Camp” sticker on top





As we ended our Capstone Event, there were so many smiles giving credence to the phrase “Happy Campers”.



**Thank You
UNL Weather Campers**