



UCAR CENTER FOR SCIENCE EDUCATION

WEATHER TRAIL DISCOVERY VISUAL SCHEDULE



Mountain waves

Mountain waves occur along with surface waves. As wind blows over a mountain range, the air is forced upward. As the air rises, it cools and condenses into clouds. On the side of the divide, the descending air warms rapidly so that the descending slope remains behind clouds that are oriented along the mountain.

As the wind is forced upward, it cools and condenses into clouds. As the air descends, it warms and the clouds dissipate. This process is repeated as the wind is forced over the mountain range.

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WELCOME TO NCAR

SCHOOL VISIT RULES

- I will use my inside talking voice.
- I will walk slowly.
- I will stay with my group.
- I will go to the front desk if I get separated from my group.
- I will raise my hand to ask and answer questions.
- I will follow my guide's instructions.
- I will ask an adult if I need help.

ARRIVING

ACTIVITY

DONE!

Prepare for the day by sitting in the lobby.

My guide will share important information for our visit and may divide us into 2 groups.



Walk quietly down the hallway to the Classroom...



...or explore Exhibits with my guide



CLASSROOM ACTIVITY

ACTIVITY

DONE!

Take a seat in the classroom and wait for instructions from my guide.



Learn how to use infrared thermometers for our activity.



Look at the Weather Trail Scavenger Hunt card to see what items or locations you'll be looking for on the trail

I might work with a partner and share a thermometer and a worksheet.



OUTDOOR ACTIVITY

ACTIVITY

DONE!

Measure the temperature of each item or location.

I will not point the laser dot at people.



Write the temperature on top of the picture.



Repeat for the other locations on the Weather Trail Scavenger Hunt card.



OUTDOOR ACTIVITY

ACTIVITY

DONE!

Discuss what we learned with our guide.



Return to the classroom.



EXHIBITS TOUR

ACTIVITY

DONE!

Explore exhibits with our guide.

The exhibit rooms are big with a lot to see. I will explore quietly and stay with my group.



I might see some of these exhibits with our guide or on my own:

Sea of Clouds

I can touch a cloud! It might feel cold or warm.



Lightning



EXHIBITS TOUR

ACTIVITY

DONE!

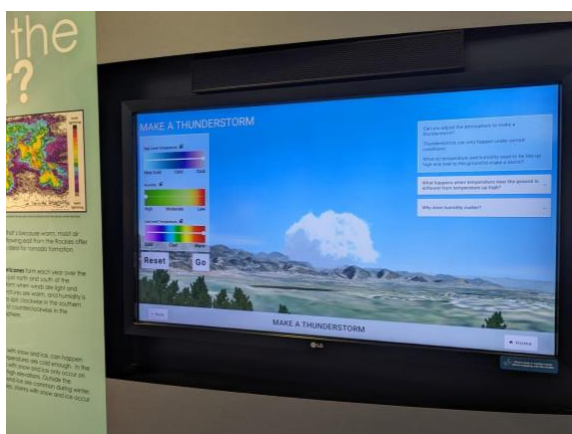
Sun Powering Weather

How does the water get up into the air?



Thunderstorms

How are thunderstorms made?



Hail

What does hail feel like?



EXHIBITS TOUR

ACTIVITY

DONE!

Tornado

What do we observe about the tornado?



Theater

I can watch a video about the weather. It may be loud.



LUNCH

ACTIVITY

DONE!

Eat lunch in the cafeteria...



...or outside in the tree plaza.



Explore the exhibits and/or outdoor hiking trails if there is time before my group leaves.

