



**UCAR CENTER FOR  
SCIENCE EDUCATION**

**ENGINEERING FOR CLIMATE CHANGE  
GRADES 6-12 VISUAL SCHEDULE**



# WELCOME TO NSF 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.

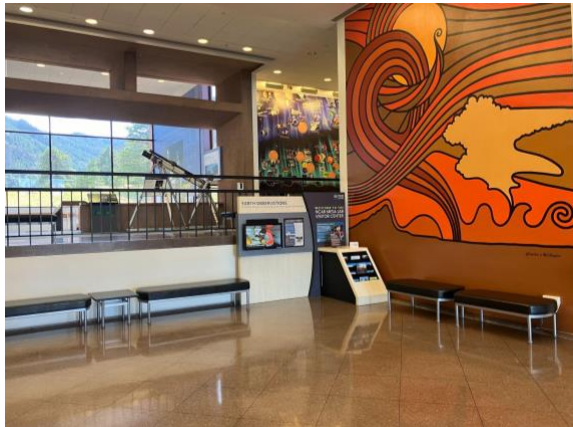
# ARRIVING

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 two groups.*



**Walk quietly down the hallway to the Classroom...**



**...or explore Exhibits with my guide.**



# CLASSROOM ACTIVITY

ACTIVITY

DONE!

**Find an empty chair at the tables and wait for instructions from my guide.**



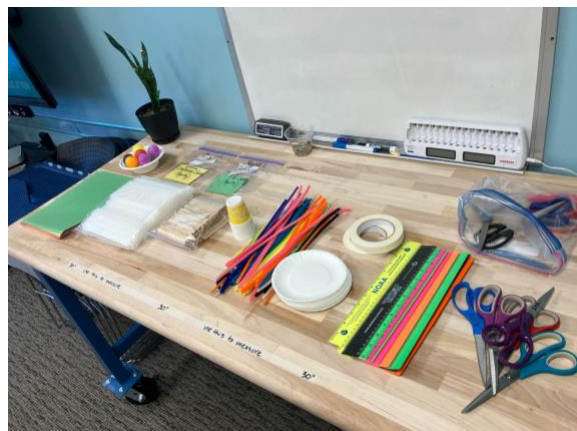
**Learn about climate change and how engineers play a part.**

*I can raise my hand to ask and answer questions.*



**Build a structure with a group of my peers.**

*Our guide will give us instructions and materials. I will work with my group to help build a structure in the time limit. We may not finish on time, but I am prepared for this.*



# CLASSROOM ACTIVITY

ACTIVITY

DONE!

## Test our structure.

*I will observe how all structures do during the test. Pieces might fall and the fan might be noisy, but I am prepared for this.*



## Redesign the structure after the tests.

*I will help my group to redesign our structure for the next test. Additional challenges may be given to groups.*



## Test our structure again.

*The wind may be faster, but I am prepared for the extra challenge.*



# CLASSROOM ACTIVITY

ACTIVITY

DONE!

**Clean up our materials.**

*I will help clean up from building our structure.*



**Discuss what parts of our structure worked and what did not.**

*I can raise my hand to ask and answer questions.*



# 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:**

## How Climate Works

*Earth's climate acts like a blanket around the world.*



## Carbon Dioxide

*Explore measurements of carbon dioxide in the atmosphere.*



# EXHIBITS TOUR

ACTIVITY

DONE!

## Ice Core

*How do we know about past climates?*



## Choose Our Future

*What can we do to reduce climate change?*



## Climate Change Impacts

*How does climate change impact people and places around the world?*





# EXHIBITS TOUR

ACTIVITY

DONE!

## Climate Stories

*I can answer the question prompt at this station and hang it up on the wall.*



## Sea of Clouds

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



## 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.**



**We might explore the exhibits and/or outdoor hiking trails if there is time before my group leaves.**

