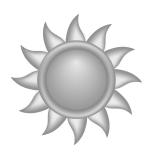
3rd Grade Science Journal

Earth and Space Systems: Climate, Weather, and Seasons









The ASSIST Approach



Why did the kid choose to wear the clothes he has on?
How do you know when to wear clothes that will keep you warm and when to wear shorts and short sleeves?

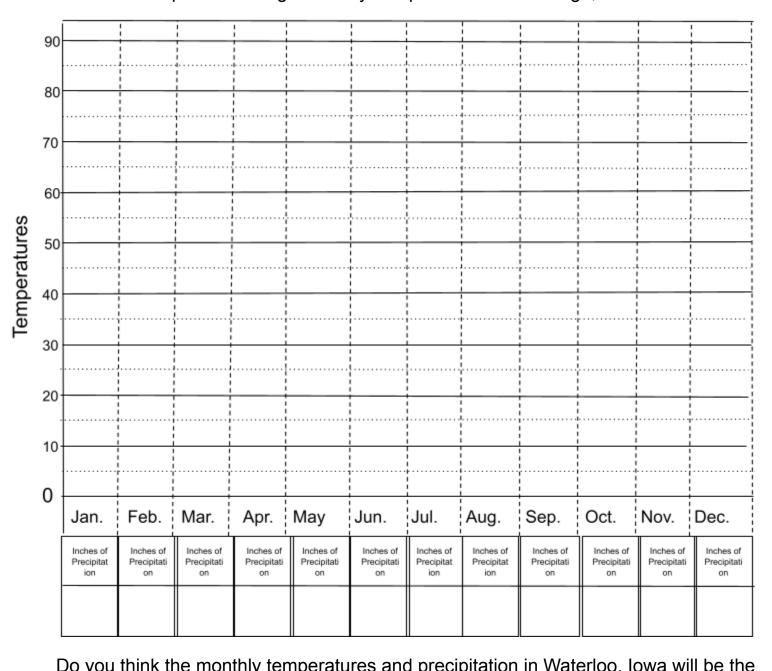


What questions do you have about the weather?
What is the "Big Idea" for the unit?





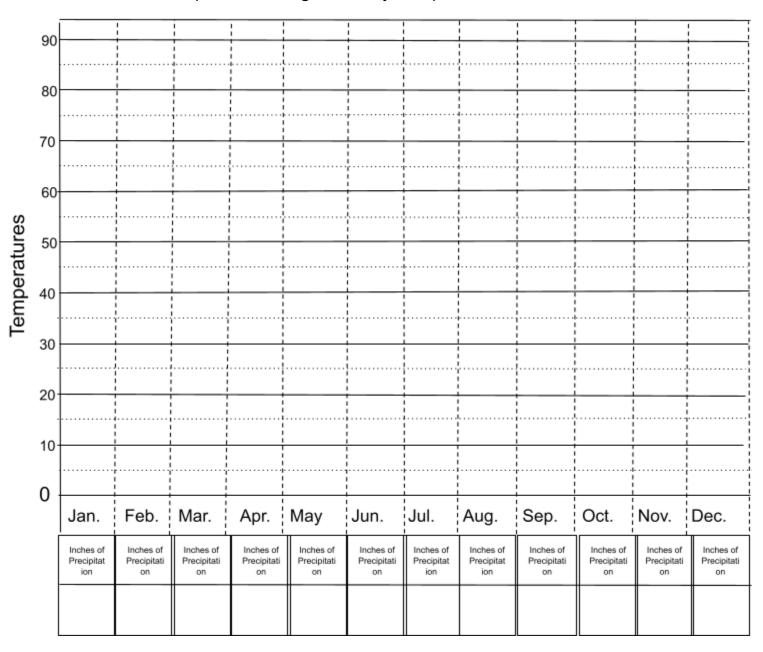
Graph the Average Monthly Temperature of San Diego, California



same as San D	Diego, Califor	nia? Explai	in why?		



Graph the Average Monthly Temperature of Waterloo, Iowa









vill snow in S	an Diego on December 13	Th This year? Explain.	
•		a on December 13, 1967. Do ecember 13th this year? Exp	



	CLAIM: I support the claim	m that it
	will will not snow in San Diego, California	this year on December 13th.
	Evidence: The evidence to supthe information that supports your claim. I think it will will not s	pport my claim is: *Remember evidence is now in San Diego because
	•	her would likely be like in San Diego, Califor learned about when you made the bar graph
eason	ing: *Remember reasoning is thinking of a	all the reasons why an idea might be right or wron
How	will you figure out if this idea is right?	Why might this idea be wrong?





Hello, my name is Maria Gonzalez. I am a climate scientist who has studied weather patterns around the world for over 9 years.

- I graduated with the top grades in my class and my research won an award for the best weather and climate project at my university.
- Any time I think my research is important I share it with other scientists so they can decide if it is good. So far the top scientists from all over the world have agreed with my research.
- It is so important to share information with people curious about science so they can build on our work and make the world a better place.

	Do you think this person is trustworthy? why or why not?		
1 1 1 1 1 1			



Understanding the Check With Experts

Question: Do you think it will snow in San Diego on December 13th this year? Information from the text: I don't think it will snow because that day was an example of strange weather, not a change in climate. How does this information support or reject your claim? Information from the text: I don't think it will snow because that day was an example of strange weather, not a change in climate. How does this information support or reject your claim? Information from the text: December is in the winter season, but in San Diego it usually does not snow in the winter. What is your evidence?



Weather Climate Seasons

Below you will make your new claim and use the vocabulary words above.



will or will not	
My new claim is: I think that it snow	in San Diego
weather / climate / se	ason
next winter, because the	might
weather / clir	nate / season
have been strange on one day but the	
weather / climate	/ season
did not change. The winter	
in San Diego is different than most places becau	se it usually
does not snow.	





Last December 25th in Waterloo, Iowa (a time when it is usually cold) a family went outside after celebrating Christmas. Oddly, it was so warm the kids decided to jump on the trampoline without any coats, hats, or mittens. When they came inside their dad said:

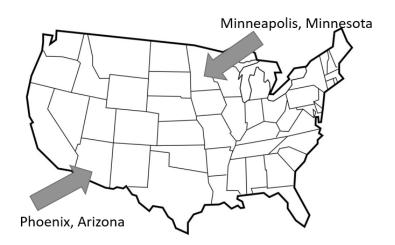
"This one warm day of weather must mean the climate has changed."

Is the dad right?

ldea #1	ldea #2
Yes, weather and climate are the same thing.	No, weather and climate are different.
I agree with idea because	
disagree with idea because	



Big Question #2: Do kids wear the same winter clothes in all parts of the United States?



In the space below draw how you think kids dress for school in the winter in Phoenix, Arizona and in Minneapolis, Minnesota.

Phoenix, Arizona	Minneapolis, Minnesota





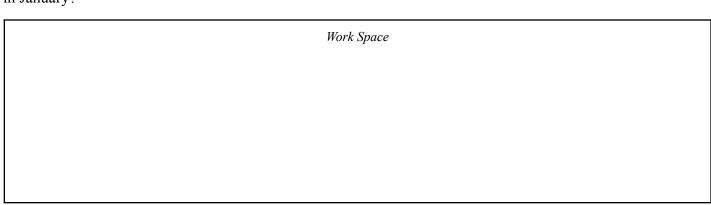
The average temperature in Minneapolis, Minnesota in January is 20 degrees F.

The average temperature in Minneapolis, Mini	nesota in July is 4 times	hotter than January.	What is the average
temperature in July?			

Work Space

The average temperature in Phoenix, Arizona in July is 100 degrees F.

The average temperature in Phoenix, Arizona in January is 30 degrees F less. What is the average temperature in January?





Question: Why is the winter warmer in Phoenix, Arizona than in Minneapolis, Minnesota?

Initial Claim: *Remember a claim is your answer to the question that we are testing.
I support the claim that it is warmer in Phoenix because
Evidence: *Remember evidence is the information that supports your claim.
Have you ever been to Phoenix or Minneapolis in the winter? Where do you live? Is it close to either place' If not, look where the two places are and how is your home related to where those places are on the map?
You can use this space to draw out your evidence
, ou can use mis space to araw our your evidence





Hello, my name is Dr. Marlow Lake. I am a climatologist (that's a scientist who studies weather and climate) who works for NASA.

- I am the leader of a team of scientists who study the Earth's climate.
- When our team makes a discovery we share our information with other scientists from around the world so they can learn from it.
- I write short stories about important topics for kids to learn in school. Who knows, maybe someday you will become a scientist!

Do you think this person is trustworthy? Why or why not?		



Understanding the Check With Experts

Question: Why is it warmer in Phoenix, Arizona than Minneapolis, Minnesota in the winter?

_	ow does this information support or reject your claim?
	formation from the text: Phoenix, Arizona is closer to the equator that inneapolis, Minnesota so it is warmer in the winter.
- F	How does this information support or reject your claim?
	formation from the text: Phoenix, Arizona and Minneapolis, Minnesota of the ferent climate zones so that is why Phoenix is warmer in the winter.
1	How does this information support or reject your claim?



Now that you have Checked With the Experts use what you have learned to adjust your claim. Please include the following vocabulary words in your drawing and writing.

	Equator	Climate Zone	:S
Arctic		Temperate	Tropical

Below you will make your new claim and use the vocabulary words above.

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My new claim is: I think that it is warmer in Phoenix during t	·he
winter because it is closer to the which	
means it will have warmerthan Minneapol	is.
There are three main on Earth.	
Thezone is far away from the equator	SO
it is cold. Thezone is close to the	
equator so it is war. Thezone is in the	
middle so it is sometimes warm and sometimes cold.	



Engineering Challenge



How will you rebuild after the landslide?



How far away from the hill will you build?

	•	J	
Home 1			
Home 2			

Multimodal Communication

