

Bellringer **REVIEW**:

- None

Learning Objectives:

- I can explain the consequences of extreme weather and El Nino.

Check for Understanding Questions:

- What are some things that happen in the world due to a strong El Nino year? (In other words what are the effects of El Nino?)

Weather Project

During this week we will be watching the weather. We will record the forecasted high and low temperatures for each day. Also record what kind of weather occurs, for example: cloudy, rainy, cold, clear, sunny, etc. We will record the actual temperatures on the following day. All data will be recorded into data tables as seen below.

Forecast temperatures and weather			
Day	High °F	Low °F	Weather
Mon	34	12	Fog
Tue	37	16	P Cloudy
Wed	46	27	Clear
Thurs	47	28	P Cloudy
Fri	50	29	Clear

Actual temperatures and weather			
Day	High °F	Low °F	Weather
Mon	35	16	Fog
Tue	36	17	Cloudy
Wed	38	16	Fog
Thurs	35	19	P Cl & Fog
Fri	37	21	Mostly Cloudy

Look up your favorite weather app or news and copy down the above information. If you'd like to keep track of additional information (dew point, humidity, etc.) go for it!

Forcasted Weather and Temps				Actual Weather and Temps			
Day	High	Low	Weather	Day	High	Low	Weather
Mon	34	12	fog	Mon	35	16	Fog
Tue	37	16	partly cloudy	Tue	36	17	Cloudy
Wed	46	27	clear	Wed	38	16	Fog
Thu	47	28	partly cloudy	Thu	35	19	fog/partly cloudy
Fri	50	29	clear	Fri	37	21	Mostly Cloudy
Sat	48	28	clear	Sat	37	20	Mostly Cloudy
Sun	45	29	clear	Sun	36	25	Cloudy
Mon	44	32	partly cloudy	Mon	48	33	Fair
Tue	53	38	clear	Tue	51	32	Fog and Clear

Procedure:

1. Add enough warm water to the pie plate to cover it in about 2 cm. of water.
2. Get a cup of cold colored water.
3. Pore the cold water slowly under the warm water.
4. Keep adding cold water until it is as deep as the warm water. You should now have a two layer system.
5. A student should blow across the top surface near an edge of the pie plate. Have everyone else watch and observe what happens. Draw in the data what your plate looks like from the top.
6. If your two layer system has not mixed, try blowing TOWARD the edge of the dish from the middle. Record your findings on the data.

Check for Understanding Questions:

- What are some things that happen in the world due to a strong El Nino year? (In other words what are the effects of El Nino?)

Learning Objectives: Did you accomplish them?

- I can explain the consequences of extreme weather and El Nino.

Self-Evaluation

- How well did you understand the material today?
(1-Lost, 2- understand, 3-can teach it)
- How well did you and your team members participate in class?
(1-didn't do anything, 2-Bare minimum, 3-fully participated)