

Weather Investigation

Teacher Background: Our investigation question compares cloudy, partly cloudy, and sunny days in April. You could also compare days at least 50° F and days less than 50° F or rainy versus sunny.

Question: Will there be more cloudy days, partly cloudy or sunny days in April?

Prediction: Predict as a class whether April will have more sunny, cloudy, or partly cloudy days.

Procedure:

1. At the same time each day decide as a class whether the day has been cloudy, partly cloudy, or sunny.
2. Record the data on a chart. (See *CHART: Cloudy, Partly Cloudy and Sunny Days in April.*) For younger students place a cut-out cloud, cloud with sun or sun on the proper date on a large calendar.

Younger Student Example:

April 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 ☀️ <small>April Fool's Day</small>	2 ☀️☁️ <small>Good Friday</small>	3 ☁️
4 ☁️ <small>Easter Sunday</small>	5 ☀️	6 ☀️☁️	7 ☁️	8 ☁️	9 ☀️☁️	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29 <small>Easter Day</small>	30	

Graph and Analyze the data – See *Graph and Analyze the Data: Number of Cloudy, Partly Cloudy, and Sunny Days in April.*




Conclusion: State which type of day had the greatest number. Support conclusion with actual number of that type of day. Also compare to the type of day that had the least number in April. (Pre-K-2: Write a class conclusion. Example: There were more cloudy days than sunny days or partly cloudy days in April. We had 16 cloudy days, 10 partly sunny days and 4 sunny days.)

CHART: Cloudy, Partly Cloudy and Sunny Days in April

Date	Cloudy 	Partly Cloudy 	Sunny 
April 1			
April 2			
April 3			
April 4			
April 5			
April 6			
April 7			
April 8			
April 9			
April 10			
April 11			
April 12			
April 13			
April 14			
April 15			
April 16			
April 17			
April 18			
April 19			
April 20			
April 21			
April 22			
April 23			
April 24			
April 25			
April 26			
April 27			
April 28			
April 29			
April 30			
Total			

Graph and Analyze the Data:












Number of Cloudy, Partly Cloudy, and Sunny Days in April

15			
14			
13			
12			
11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
	Cloudy Days 	Partly Cloudy Days 	Sunny Days 

For Younger Students:

Create the graph on the board using the shapes from the calendar. Remove and place (in an upward line) above the categories of Sunny Days, Partly Cloudy Days and Cloudy Days.

Example:

4			
3			
2			
1			
	Cloudy Days 	Partly Cloudy Days 	Sunny Days 