## Analysis

Analysis is how we make the data work for us. By looking at our measurements, we begin to see patterns that can help us make predictions for the future!

Find the average temperature for each day and plot the averages with a dot on the graph below.

	2	Date 3	4	5
100				
90				
80				
₩ 70				
Tem 60 50 40 30 30				
<b>50</b>				-
E 40				-
30				-
20				
10				
0				

Look at your graph. Do you notice any warming or cooling trends? Why do you think that might be?

You can graph any of the measurements you made.

Just use the graph above as a guide to make your own!

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## Weather Data

Let's take a deep look at the weather around your school. By recording the weather once per week, we can identify patterns and even learn to make our own forecast!

Use the tools at the colored weather stations to make and record measurements.

Be sure to snap a photo at each station's photo frame.



Take readings from the instruments at the stations and write down your findings.

## Oh, the HUMIDITY!

Relative humidity is a ratio of how much water is in the air versus how much water the air can hold at that temperature. Use the measurements from the sling psychrometer to find the relative humidity on the chart below:

Difference Between Wet Bulb and Dry Bulb Temps (°F)

	7900			and bry bails remps (-F)											
_	1	2	3	4	5	6	7	8	9						
3	2 90	79	69	60	50	41	31			10	11	12	13	14	15
3	6 91	82	73	65	56	48	39	22	13	4					
41	92	84	76	68	61	53		31	23	14	6				
44	93	85	78	71	64		46	38	31	23	16	9	2		
48	93	87	80	73	67	57	51	44	37	31	24	18	12	5	
52	94	88	81	75		60	54	48	42	36	31	25	19	14	8
56	94	88	82	77	69	63	58	52	46	41	36	30	25	20	15
60	94	89	84	78	71	66	61	55	50	45	40	35	31	26	21
64	95	90	85		73	68	63	58	53	49	44	40	35	31	27
68	95	90	85	79	75	70	66	61	56	52	48	43	39	35	31
72	95	91		81	76	72	67	63	59	55	51	47	43	39	35
76	96	91	86	82	78	73	69	65	61	57	53	49	46	42	
80	96		87	83	78	74	70	67	63	59	55	52	48		39
84	96	91	87	83	79	76	72	68	64	61	57	54	51	45	42
88		92	88	84	80	77	73	70	66	63	59	56		47	44
1000	96	92	88	85	81	78	74	71	67	64	61	58	53	50	47
92	96	92	89	85	82	78	75	72	69	65			55	52	49
96	96	93	89	86	82	79	76	73	70	67	62	59	57	54	51
100	96	93	90	86	83	80	77	74	71		64	61	58	55	53
					200	1		-	/1	68	65	62	59	57	54

