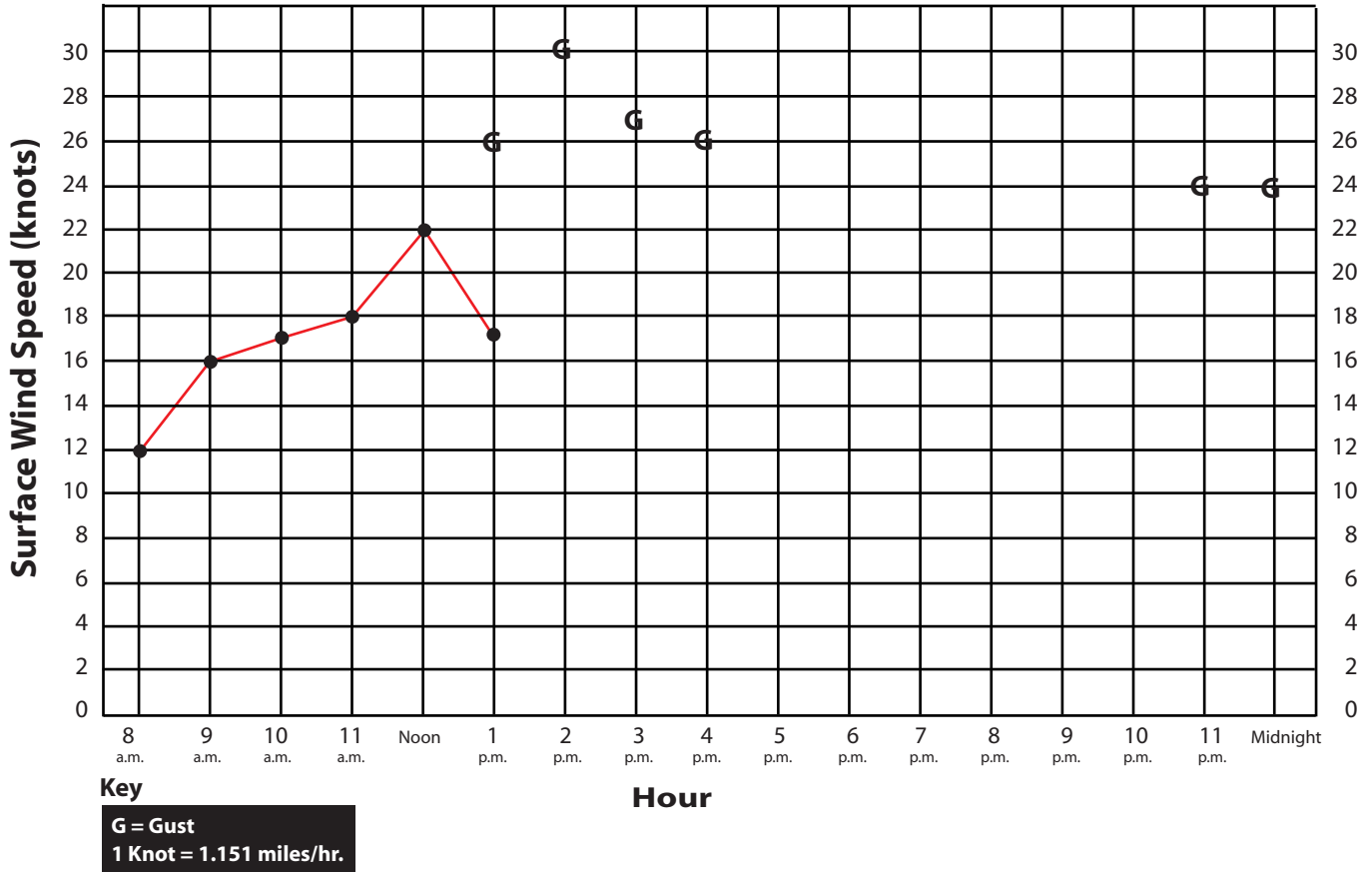


Wind Team Graph Day 3 - New York City

Surface winds blow across the Earth at altitudes from 0 to approximately 3,000 feet.

First, finish the line graph of surface wind speeds for New York City on day 3. Ask your teacher for the data. Are there any wind gusts (indicated by the letter "G") on the graph? When did they occur?

Next, compare the days 2 and 3 graphs. Are the winds becoming stronger or growing weaker?



Next, calculate wind chills. Use the Wind Chill Index chart below and your graph data sheet. Are there dangerous wind chills in New York City on day 3? If so, when do they occur? What is your wind chill prediction for New York City on day 4?

Wind Chill Index Chart

		Surface Temperature (°F)											
		40-36	35-31	30-26	25-21	20-16	15-11	10-6	5-1	0-4	-5-9	-10-14	-15-19
Wind Speed (knots)	1-5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28
	6-10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35
	11-15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39
	16-20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42
	21-25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44
	26-30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46
	31-35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48
	36-39	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50

Wind Chill (°F)

Frostbite Occurs in 15 Minutes or Less