Weather Relationships (1:55) Hommocks Middle School https://www.youtube.com/watch?v=PssZKFILOeM&list=PL37057D7BFD1608CB&index=47

This video describes 15 different weather relationships. (Plus 1 bonus!) For each relationship, describe how the variables change in words, then sketch the graph and fill in the blanks in the statements.

Graph One		Graph Two	
Air Pressure		Air Pressure	
	Temperature		Moisture
As Temperature decrease		As moisture decrease	
increases.		increases.	
		Dry air moist a	is pressure than air.
Graph Three			<u>Graph Four</u>
Rate of Evaportation		Rate of Evaportation	
	Temperature		Humidity
		As Humidity increases the Rate	
of Evaporation will .		of Evap	ooration will
Warmer air causes evaporation.		Dry air causesevaporation than moist air.	

Graph Five		<u>Graph Six</u>			
Rate of Evaportation		Rate of Evaportation			
	Surface Area		Windspeed		
As Surfa	ce Area increases the Rate	As Windspeed increases the Rate			
of Evapo	oration will	. of Evap	of Evaporation will		
Spreading water out will causeevaporation.		Windier conditions causeevaporation.			
	Graph Seven		Graph Eight		
Relative Humidity		Ability to hold moisture			
	Temperature		Temperature		
As Temperature increases Relative Humidity .		for mo	perature increases the Capacity isture		
Increasing air temperature will cause the air to		Hotter air is capable of holding			
become saturated.		water	vapor. ( capacity)		

Graph Nine		Graph Ten		
Air Density		Windspeed		
	Temperature		Pressure Gradient	
As Temperature increases, Air Density		As the Pressure Gradient increases, the		
		windsp	eed	
		A highe	er pressure gradient will cause	
Hotter air is dense and will			winds.	
have	air pressure.	(Isobar	s will be together.)	
	Difference between Air Temperature and Dew Points  emperature and dew point get closer together difference), the chance of precipitation will	get clo	Graph Twelve  Difference between Wet Bulb and Dry Bulb wet bulb and dry bulb temperatures ser together (smaller difference)  bability of precipitation will	
<u> </u>		Relativ	e humidity will	

Graph Thirteen		Graph Fourteen		
Air Temperature	Carbon Dioxide Concentration	Air Pressure	Elevation	
As Carbon dioxide concentration increases, air		As elevation increases, air pressure will		
tempera	ature		<u> </u>	
Increasing global CO₂ levels (ppm) will cause global		As you move up a mountain (elevation increases)		
tempera	atures to because	the air pressure will		
CO <sub>2</sub> absorbs				
Graph Fifteen		Graph Sixteen		
Water Vapor		Wind Speed		
	Elevation	1	Distance between Isobars	
As elevation increases, water vapor concentration will		As the distance between isobars increases		
		the windspeed will		
The amount of water vapor willas you move up a mountain.		Closer isobars = winds.  Far apart isobars = winds.		

Note - Graph 16 is not mentioned in the Video