

Name: _____

Period: _____

Time of Day	Air Temperature (°C) (Dry-Bulb)	Wet Bulb (°C)	Wet Bulb Depression	Dew Point (°C)	Relative Humidity (%)
1:00 AM	10.0	5.0			
2:00 AM	8.0	4.0			
3:00 AM	6.0	4.0			
4:00 AM	4.0	4.0			
5:00 AM	6.0	4.0			
6:00 AM	8.0	4.0			
7:00 AM	10.0	5.0			
8:00 AM	12.0	5.0			
9:00 AM	14.0	6.0			
10:00 AM	16.0	7.0			
11:00 AM	18.0	8.0			
12:00 PM	20.0	9.0			
1:00 PM	22.0	10.0			
2:00 PM	24.0	10.0			
3:00 PM	26.0	11.0			
4:00 PM	26.0	11.0			
5:00 PM	24.0	10.0			
6:00 PM	22.0	10.0			
7:00 PM	20.0	9.0			
8:00 PM	18.0	8.0			
9:00 PM	16.0	7.0			
10:00 PM	14.0	6.0			
11:00 PM	12.0	5.0			
12:00 AM	10.0	5.0			

CONCLUSION QUESTIONS

1. What is the relationship between air temperature and moisture capacity?

2. What is the relationship between air temperature and relative humidity? Why?

3. As the air temperature and dew point temperatures get closer together, what happens to the relative humidity?

4. Draw two station models based on the following data.

Temperature = 82°F	Temperature = 82°F
Cloud Cover = 100%	Cloud Cover = 75%
Wind Direction = N	Wind Direction = W
Wind Speed = 35 knots	Wind Speed = 15 knots
Dew Point = 80°F	Dew Point = 64°F
Pressure = 989.7 mb	Pressure = 996.2 mb
Pressure Trend = ↓1.1 mb	Pressure Trend = ↓1.3 mb
Visibility = 1/8 mile	Visibility = 1/4 mile

5. Which location will have a higher relative humidity? How can you tell?

