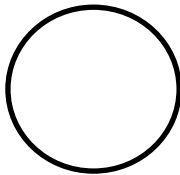Name _____ Date _____ Period _____

CREATE WEATHER STATION MODELS
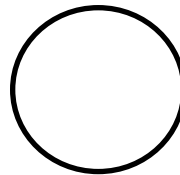
Activity 1 – Make You Own!

In the chart below, you find meteorological data that was taken at several different airports in Utah. Use this data to create weather station models for each city listed in the table.

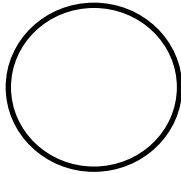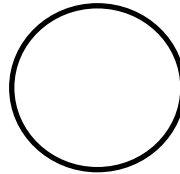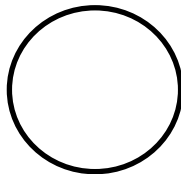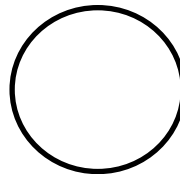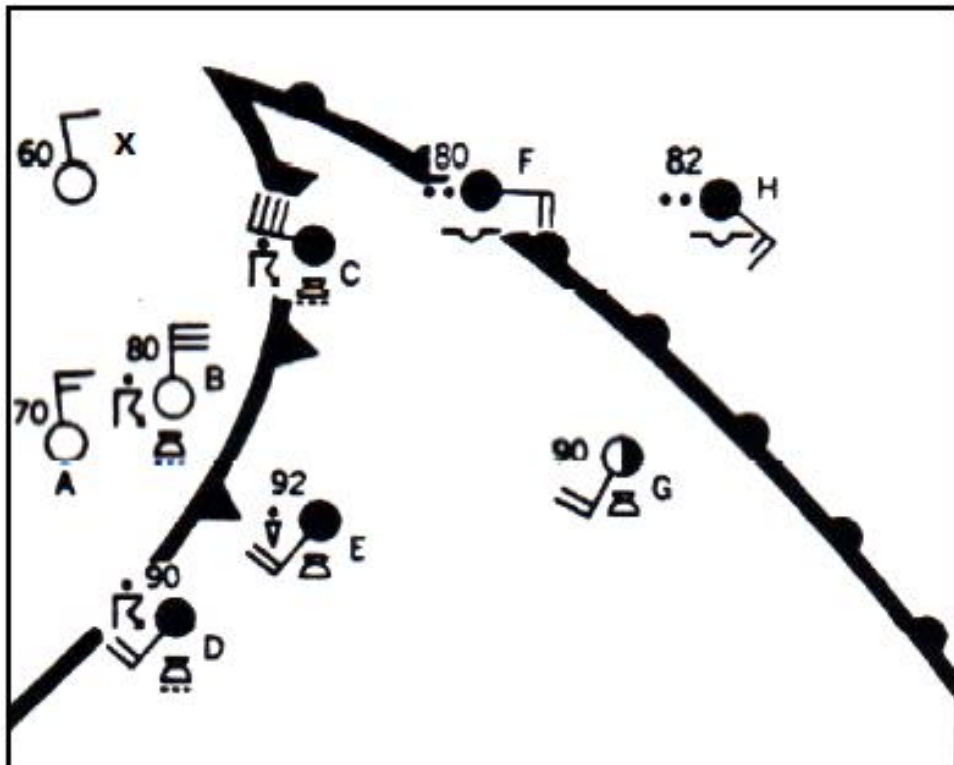| City	Temp. °F	Dew Point	Wind		Air Pressure	Cloud Coverage	Current Weather Conditions
			Direction	Speed			
Salt Lake	45	30	SW	16	1016.9	Sky obstructed	fog
St George	79	45	NE	5	1030.1	2/8	none
Provo	42	19	SW	20	998.2	Overcast	drizzle
Bryce Canyon	31	8	W	30	986.4	6/8	heavy snow
Ogden	39	26	NW	35	991.9	7/8	thuderstorm
Hill Air Force Base	44	30	S	10	1000.0	3/8	none

Salt Lake

St George

Provo

Bryce Canyon

Ogden

Hill Air Force Base

Activity 2 – Tying it all Together

Study the weather station models show in the diagram of a weather map below. Then write the letter or letters (some may have more than one) under each description.

1. Areas where wind is north

2. Areas where wind is south

3. Areas where wind is east

4. Areas where wind is southwest

5. Closest to the warm front

6. Closest to the cold front

7. Areas that are overcast

8. Areas that have thunderstorm

9. Areas that have light rain

10.Areas with winds at 20 knots

11. Areas where wind is 40 knots.

12. Areas that have cumulonimbus clouds

1. Shade the area where a maritime Tropical (mT) air mass is located in red.
2. Shade the area where a continental Polar (cP) air mass is located in blue.
3. Describe a real life situation when a weather station model is useful.