Earth Science 2   Name:

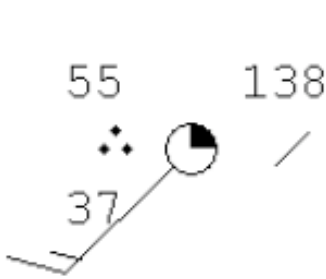Station Model Practice   Date:

Follow the instructions below to learn how to show and read air pressure, wind speed, temperature, dew point, cloud cover and precipitation on a station model.
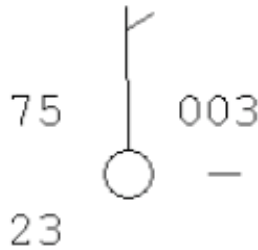
Rules for Air pressure:

- Shown in top right side of the station model.
- First add the decimal point between the 2nd & 3rd digit.
- Then put a 9 or 10 in front of the number.
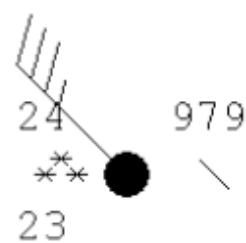- The acceptable range of pressures is 960mb to 1040mb.

Fill in the air pressure for the station models below:
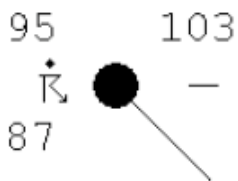

Air pressure: _____   Air pressure: _____   Air pressure: _____

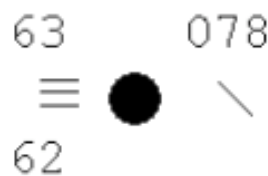**Rules for temperature and dew point:**

- Temperature is shown in Fahrenheit on the top left side of the station model.
- Dew point is shown in Fahrenheit on the bottom left side of the of the station model.

Fill in the temperature and dew point for the station models below:

Temperature (°F): _____   Temperature (°C): _____
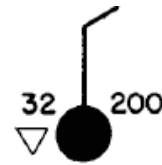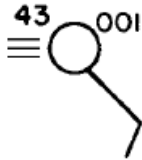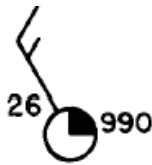
Dew point (°F): _____   Dew point (°F): _____

Rules for wind speed and direction:

- Wind direction is measured by where the wind originates. The stick of the station model points in the direction the wind comes from.

- The flags on the stick show the approximate wind speed. A short flag equals 5 knots, a long flag equals 10 knots and a triangle is 50 knots.

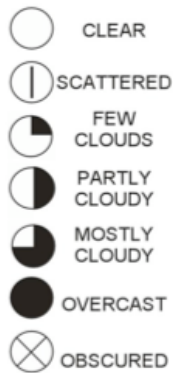Fill in the wind speed and direction for the station models below:

Wind direction: _____   Wind direction: _____   Wind direction: _____

Wind speed: _____   Wind speed: _____   Wind speed: _____

Rules for cloud cover and precipitation:

- Cloud cover is determined by how much of the visible sky is filled with clouds.
- Precipitation types are shown in symbols on the left side of the station model.
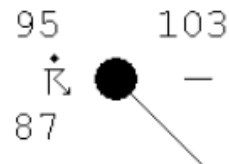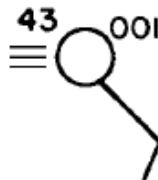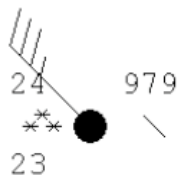- The symbols for cloud cover and precipitation type are show below:

Cloud Cover

- CLEAR
- SCATTERED
- FEW CLOUDS
- PARTLY CLOUDY
- MOSTLY CLOUDY
- OVERCAST
- OBSCURED

Present Weather

Drizzle   Rain   Smog   Hail   Thunder-storms   Rain showers

Snow   Sleet   Freezing rain   Fog   Haze   Snow showers

Fill in the cloud cover and precipitation for the station models below:

Cloud Cover: _____   Cloud Cover: _____   Cloud Cover: _____

Precipitation: _____   Precipitation: _____   Precipitation: _____

Identify the weather variables for the station model below:
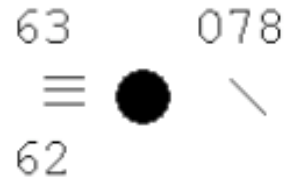
Temperature:
Dew Point:
Wind Direction:
Wind Speed:
Cloud Cover:
Pressure:
Current Weather:

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63        078
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62
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Now make your own station models using the data provided below:

Right Now for Binghamton, NY
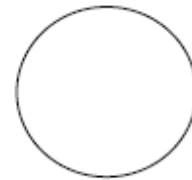
Temperature: 19°F
Dew Point: 11°F
Wind Direction: from NW at 10mph
Cloud Cover: 100% (or cloudy)
Pressure: 1006.1mb
Current Weather: snow

Right Now for San Diego, CA

Temperature: 72°F
Dew Point: 36°F
Wind Direction: from WNW at 5mph
Cloud Cover: 50% (or partly cloudy)
Pressure: 1016.3mb
Current Weather: none