Scientific Careers in Weather

Meteorologist **Hydrologist** A scientist who studies __ A scientist who studies Identify the metric units used to measure wind _ Identify the metric units used to measure precipitation speed __ Calculate the mean and median wind speed Calculate the mean and median precipitation for a five-day period for a five-day period Graph and analyze wind speed for a twelve-Graph and analyze precipitation data for a 12month period month period Describe cold and warm fronts and the weath-Describe the amount of the earth's surface cover associated with each ered by water Conduct a survey to determine the most com-Investigate how well different solids dissolve in mon type(s) of severe weather in your area over the past 30 years Investigate how well water flows through different earth materials Design an instrument to measure wind direction or speed Describe at least three different ways in which Predict the weather based on current weather water changes from one state to another maps Evaluate the impact of the population of a city Calculate the change in air temperature for a on the city's water supply growing city over a period of time Climatologist **Atmospheric Scientist** A scientist who studies _____ A scientist who studies __ Identify the metric units used to measure tem-Identify the metric units used to measure air perature pressure Calculate the mean and median temperatures Calculate the mean and median air pressure for a five-day period for a five-day period Graph and analyze temperature data for a Graph and analyze temperature data for a twelve-month period twelve-month period Describe six different climate types Explain how the earth's atmosphere changes with altitude Construct and interpret a climate graph Design a tool to measure wind direction or Investigate how energy from the sun heats speed earth surfaces Investigate how the earth's atmosphere has Describe how latitude and ocean currents changed over billions of years affect climate Describe several air pollutants in the atmos-_ Identify local factors that affect climate phere and their source Evaluate the change in air pollution for a city over a period of time