

Backyard Weather Station Activity – Weather Station Worksheet

As State Park Engineers, it is time for you to work together to make a real weather forecast! You must tell the visitors coming to the Park this weekend if they should expect a weather front.

A **Cold Front** is a warm-cold air boundary where the cold air replaces the warm air.



Cold fronts usually bring cumulus (and altocumulus) clouds, showers or thunderstorms. As the cold front passes, the wind changes direction. Skies begin to clear, and the temperature and pressure usually drop.

A **Warm Front** is the boundary between warm and cold air, where the warm air replaces the cold air.



Warm fronts bring stratus clouds and some precipitation, either rain or snow. When the front passes, the sky clears and the air pressure rises. The temperature also rises as warm air replaces cold air.

As a team, answer the following questions to determine if there is a weather front.

1. What is the cloud shape? _____
2. Has the wind changed direction? _____
3. Has there been sign of precipitation? _____
4. Has the air temperature risen, fallen, or stayed the same? _____
5. Has the air pressure risen, fallen, or stayed the same? _____
6. Do you predict a weather front in your area? _____
7. Do you predict a cold or a warm front? _____
8. How should the Park visitors prepare for this weekend's weather?
