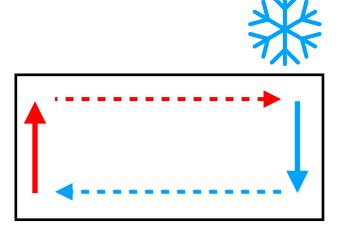
How will the fluid in each container respond to the heating/cooling conditions?



Warmed air rises and may trigger summer rain showers. Key: Cold Convection: solid blue arrow Warm Convection: solid red arrow Cold Advection: dashed blue arrow Warm Advection: dashed red arrow Warm at top Thermally Stratified Cold at bottom Air near the ground becomes thermally stratified at night as the ground cools.



Pond water becomes thermally stratified during the summer with the cool water remaining at the bottom all summer.



As the water cools and becomes denser than the water below, it sinks. Remember, water is densest at 4°C (39°F).

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