

Clouds & Particles

More

1. What happens in clouds?

Solution Worksheet 3

1.

Convection currents in the pool of melted wax in a candle appear because the wax is hottest close to the wick. Thus, wax rises in the middle. As it floats on top of the pool it gets colder the longer it moves away from the wick. It sinks when it approaches the edges because of its relatively low temperature; forming "convection cells" of circulation.

2.

A lift may typically ascend at about 2 m/s.

Gliders and aircraft have to be very cautious of cumulonimbus clouds because of the strong vertical air currents. For this reason, pilots are given particular warnings from the local airport weather service when there are cumulonimbus clouds around.