# Convection currents

# **Background information**

The process of convection is when heat is transferred to fluid then the heated fluid expands which makes the fluid become less dense than the fluid around it causing the difference in density to create a buoyancy force on the heated fluid causing it to move upwards. As the fluid moves, it transfers heat to its surroundings, the density of the heated fluid increases as it loses heat causing the buoyancy force to decrease and the fluid to slow causing fluid to become more dense than the fluid around it making the fluid sink.

Some factors that affect convection are:

- Density
- Fluid velocity
- Area
- Viscosity

Convection currents in the mantle rise due to heat from the earth's core, as it cools it becomes denser, this causes it to sink down in a continuous cycle which is the reason for the tectonic plates moving.

# Aim

To see how convection currents are affected by different temperatures.

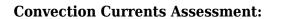
# Equipment

1x 200 ml beaker
1x Ice cube
1x pipette
1x 50 ml of potassium permanganate
1x box of matches
1x gauze mat
1x tripod

# Safety

# **Convection Currents Assessment**

**Camilla Rothe** 



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