**Convection Currents**

**1. The warm water was rising.**

**2. When the warm water reached the surface it spread out and started to descend.**

**3. The cooler water sinks towards the bottom.**

**4. The cooler water is denser and so it sinks, while the hot water becomes less dense and rises.**

**5. The water and the food coloring represents the magma within the mantle where convection currents occur. The flame represents the heat from the inner core.**