Arvind Gupta
Toys from Trash
www.arvindguptatoys.com/toys.html

✅ Step-by-Step
    Photo Guide

✅ Detailed
    Worksheet

See 1 minute video at:
http://www.arvindguptatoys.com/toys/Convectioninglass.html
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- Step-by-Step Photo Guide
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**MATERIALS**

- Old CD/DVD
- Glass 1
- Glass 2
- food Colour

[Image of materials: CD/DVD, two glasses, food colour]
Fill a glass completely with hot water

Add some food colour
Stir well

Fill another glass with cold water
Cover glass with cold water with old CD

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☑ Step-by-Step Photo Guide
☑ Detailed Worksheet

Coloured hot water
Cold water
Cover CD hole with fingers and invert it gently over hot water glass.
Step-by-Step Photo Guide

Detailed Worksheet

Beginning of convection

Coloured hot water gushes out of CD hole
Coloured hot water gushes out of CD hole
Hot water being lighter, rises up by convection!

After some time temperature and colour of water in both glasses will be same!
1. Fill a glass completely with hot water.
2. Add some food colour and stir well.
3. Fill another glass with cold water.
4. Cover the cold water glass with an old CD.
5. Cover the CD hole with your fingers and invert it gently on the coloured water glass.

Soon you will see amazing convection currents going up!

Hot water is lighter than cold water, so it rises up. After a while the temperature and colour of water in both glasses will become the same.