

GATEWAY REGION YMCA CONVECTION

Heat directly relates to density, which means that hotter air or water will travel up while colder travels down. This is why when you open an oven, you can feel hot air travel out. This transfer of heat is called convection. Let's do an experiment that demonstrates this.

Supply List

- Clear Bin
- 3x mugs, 2x cold water, 1x hot
- Food coloring

Instructions

- 1. Fill the bin with water and balance atop the two mugs with cold water
- 2. Place a drop of red food coloring at the center and two blue beside it
- 3. Slide the hot-water mug under the red collection of coloring
- 4. Watch the convection currents!
- 5. See how the red (hot) water rises and pulls in blue to replace it?

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