

# Convection

- **Convection?**
- Convection is heat transfer in a fluid, due to differences in density.
- **What is a fluid?**
- Fluid = anything that flows.

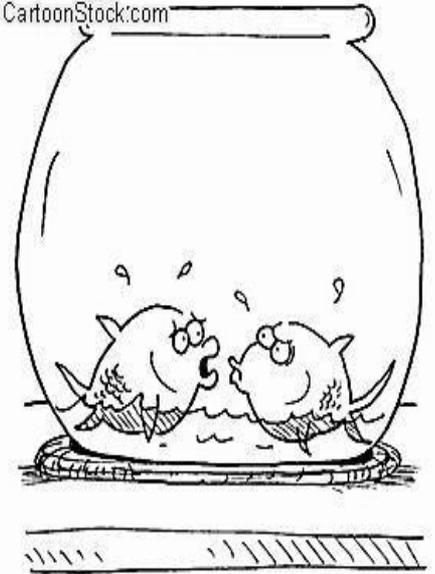
Liquid

Gas

**Mr. Papps'**

**mad rhyming skills Yo!**

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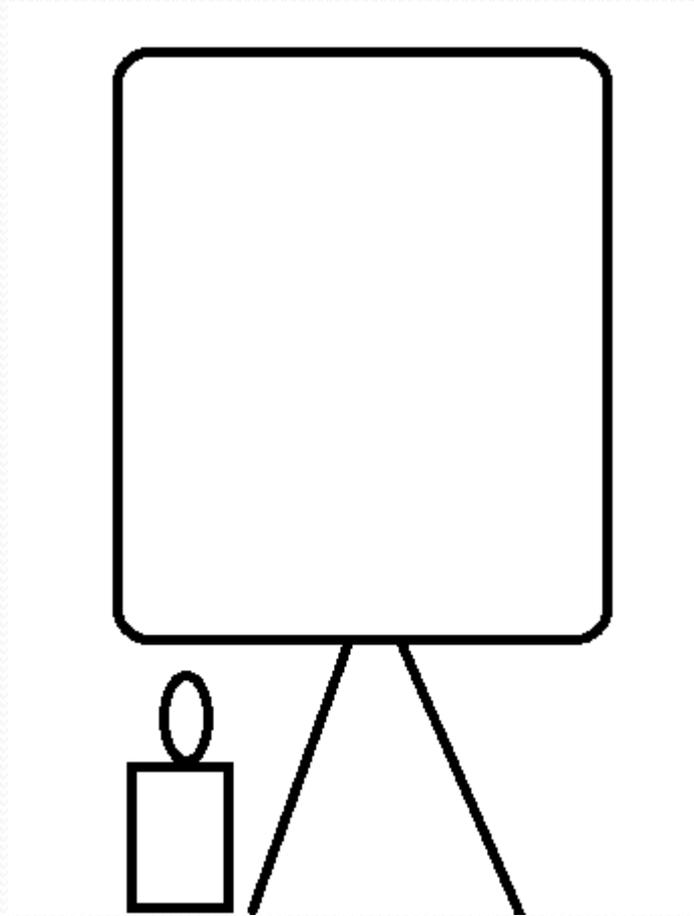


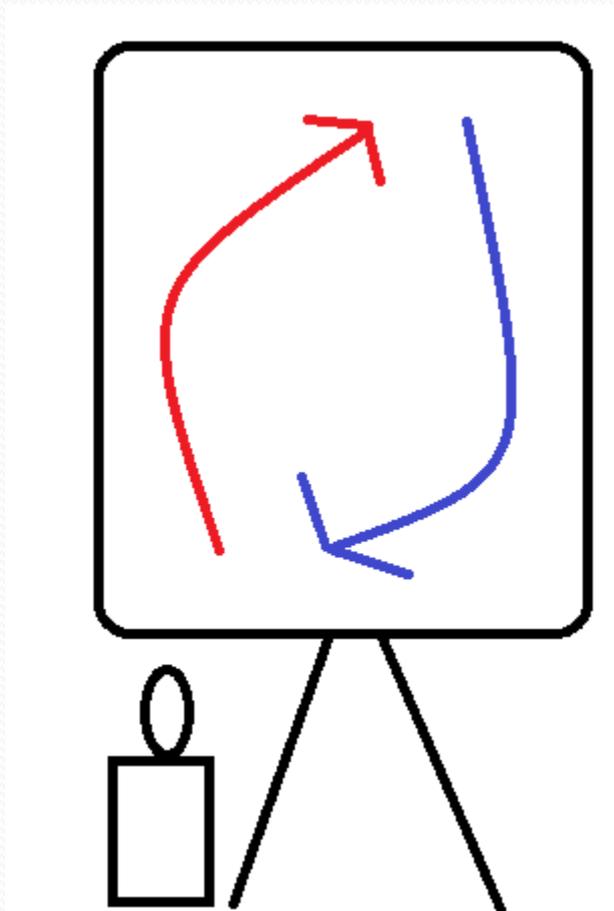
... BUT THE DOCTOR SAID  
I SHOULD DRINK MORE FLUIDS.!



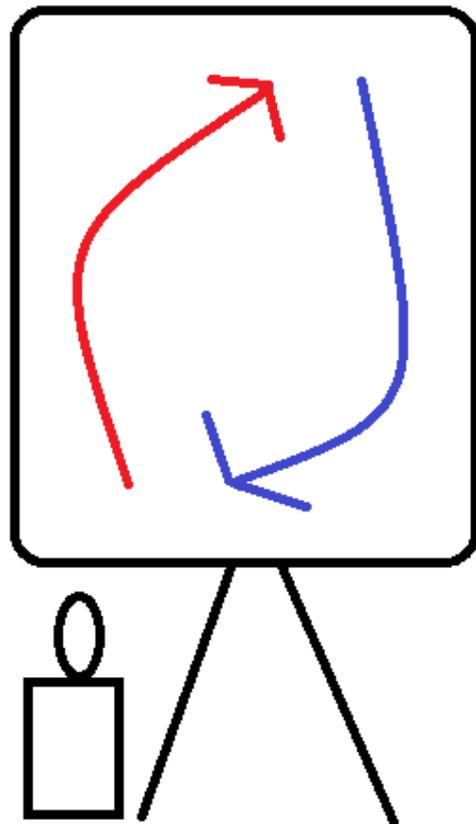
- Why does convection happen?
- Hot fluids on the bottom expand (volume)
- The density drops
- Fluid rises.
- Colder fluids on top drop down to the bottom.  
(process repeats trying to reach equilibrium)

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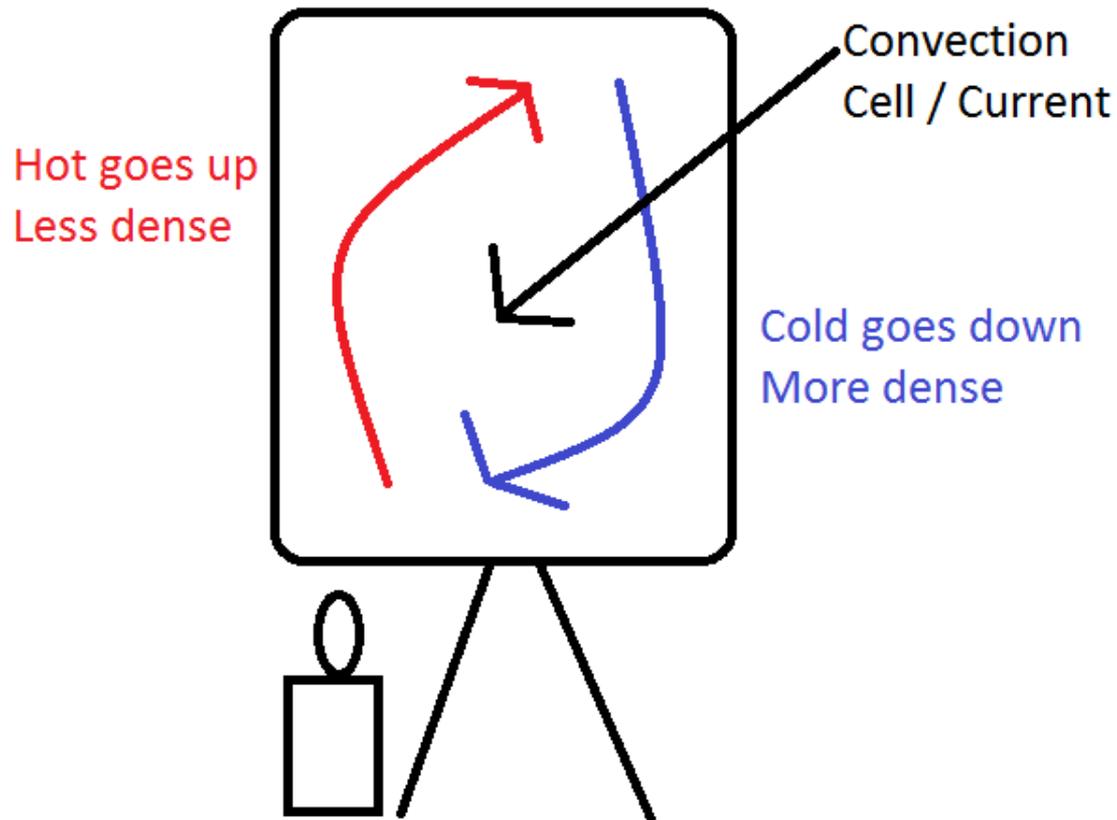


Hot goes up  
Less dense

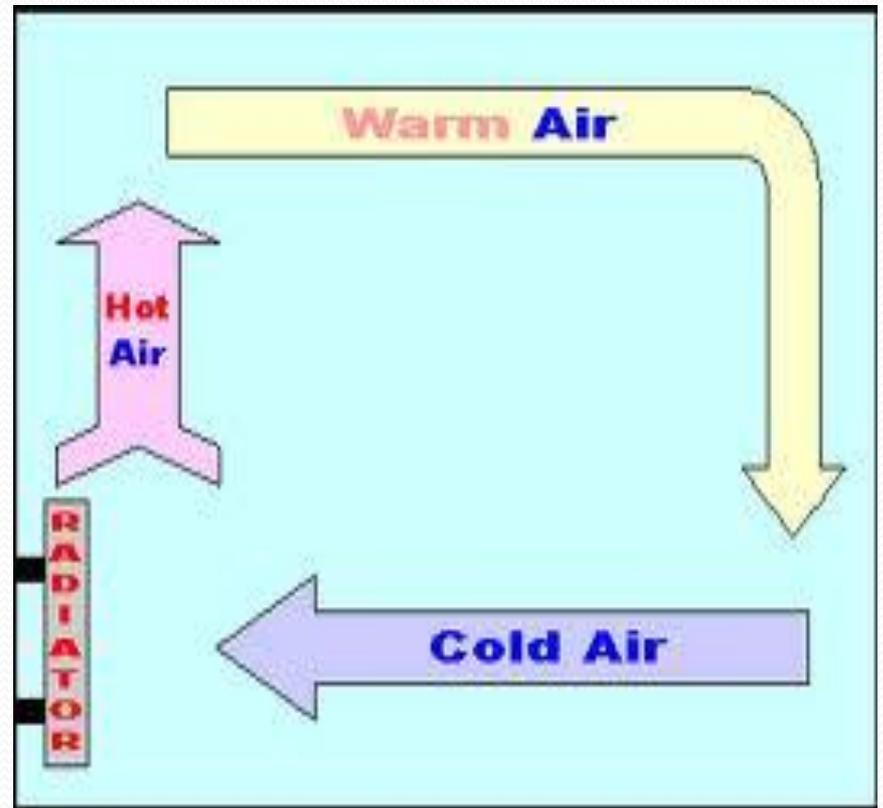
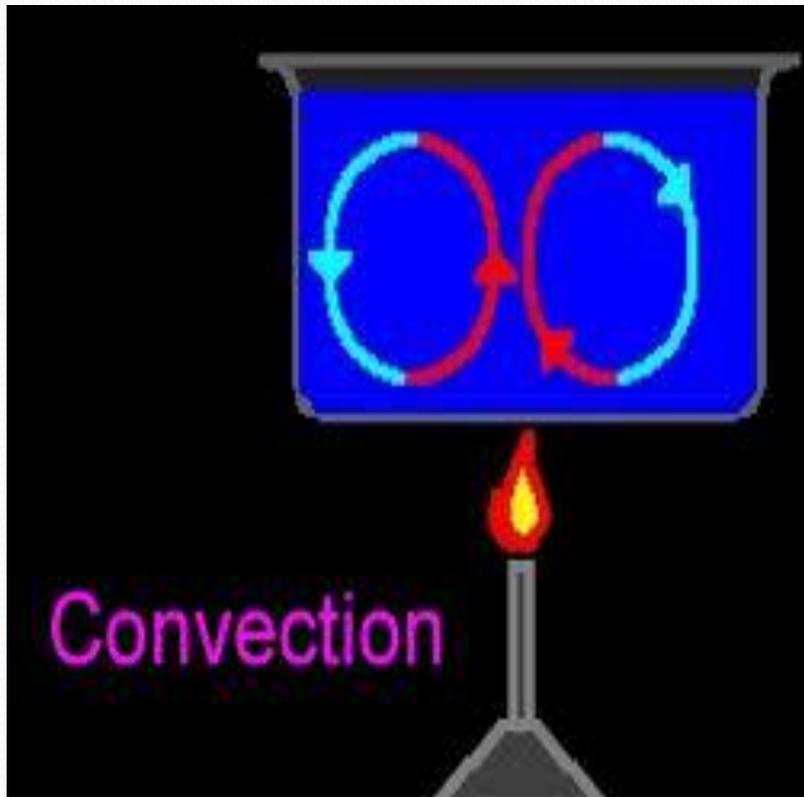


Cold goes down  
More dense

# Convection



# Convection





# Convection Lab (R)

- Define Convection.
- Why does it happen?
- Best in what state(s) of matter?
- Define fluids.
- End result?
- 3 real world examples.
- Draw a convection cell.
- Label what is happening.