


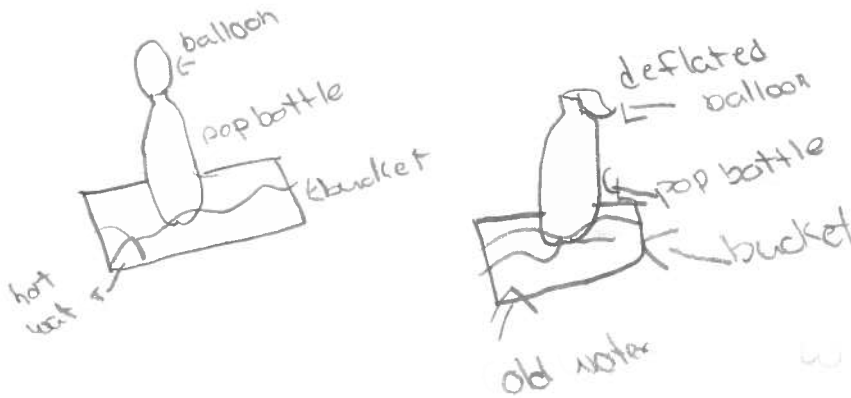
Title of lab or demo: Full of hot air 

Challenge or testable question: Prove that hot air expands, cool contracts.

Manipulated variable: water temperature



Responding variable: Shape of balloon

Observational diagram and summary sentence(s) (What happened):



Notes on the characteristics of air:

- when the balloon was in the hot water expanded
- when it was in cold water it deflated
- Air expands when heated and contracts when cooled.

- less dens air rises.  

Hot air      cold air

Practical applications:

- thermometer
- Hot air balloon