

DO ~~NOT~~ TRY THIS AT HOME

Issue #82

Featuring: **Marvin and Milo**

What you need: • Two plastic drinks bottles • Cold water • Hot water • Sink • Piece of card • Red food colouring

Phew Milo, I needed that drink in this heat but before you recycle that bottle let me show you an experiment.

Fill one bottle with cold water.

Fill the other with hot water from the tap.

Add some red food colouring to the hot water.

Hold the card firmly over the top of the cold water bottle, turn it upside down and balance it on top of the hot water bottle.

Align the bottles and carefully remove the card. Do this in the sink just in case!

Hot water is less dense than cold water so it rises into the top bottle while the cold water sinks into the bottom bottle. This convection continues until the water is the same temperature throughout both bottles.

Vic Le Billon