**Salt Column**

Have 4 students make up different salt solutions –

- Solution A 50 mL of water and 1 teaspoon of salt

- Solution B 50 mL of water and 2 teaspoons of salt

- Solution C 50 mL of water and 3 teaspoons of salt

- Solution D 50 mL of water and 4 teaspoons of salt

Add a few drops of different food dyes to each solution.

Add about 12ml of solution D to a burette.

Tilt the burette and very carefully run 12ml of solution C on top of solution D. If you are careful the two will not mix.

Repeat for solution B.

Repeat for solution A.

Add some straight water on top.

If you have been careful, the different densities of each layer will see the layers stay separate for over a week. An interesting demo explaining research into solar ponds and cold farm dams. It is surprising how slowly the layers mix.