



a WOW Lab  
**BLUEPRINT**

# Rainbow in a Bottle

## Introduction

*Rainbow in a Bottle* is a fun, visual way of teaching students about solutions, colours and density. Coloured solutions of different densities, created using sugar, water and food colouring, are poured into a clear container to make a rainbow. Students will observe that the solutions with more sugar rest below the solutions containing less sugar. From this observation, students will learn that the sugar and water solutions have the same volume but different densities depending on the amount of sugar added.

This activity provides illustrated step-by-step instructions for young students to follow on their own. Students will be able to make the coloured sugar solutions and create the rainbow.