

# Water Rainbows

## What Do I Need?

- Three water bottles
- Salt
- Funnel
- food color
- eyedropper
- spoon
- test tubes



## What Do I Do?

- Fill three bottles with water
- Add 3 teaspoons of salt and food coloring to one bottle.
- Add 6 teaspoons of salt and water to another bottle.
- Add food coloring to the third bottle.
- Shake the bottles.
- Take an eyedropper full of the water with the most salt. Tilt the test tube and put the liquid in the bottom
- Carefully do the same procedure with the other salty liquid and the plain water.
- Enjoy your rainbow!

## What's Going On?

The amount of salt in the water alters its density. The second bottle has the most salt and therefore has the most density. The other liquids are less dense; the result is they float on the more dense liquid. Watch what happens if you shake the tube!



