



A Sprouting Minds
Enrichment Club Experiment

Rainbow in a Jar

 Rainbow in a Jar

Make your own rainbow using simple kitchen ingredients! This experiment shows how liquids with different densities can stack to create a colorful rainbow.



What You'll Need



Honey

Dish Soap (blue or green works great)

Water (add food coloring if you like)

Oil (vegetable or Olive)

Rubbing Alcohol

A clear jar or glass





Step 1: Start Pouring



- Mix your honey with 1 drop of red food coloring and 1 drop of blue food coloring. (Makes purple). Then Carefully pour honey into the bottom of your jar.
 - Next, slowly add dish soap.
- 👉 Pro Tip: Pour down the side of the jar to keep layers separate!



Step 2: Build Layers

- Add your water mixed with green food coloring

Gently pour in oil. Tip your jar as you pour.

- Finally, mix rubbing alcohol with red food coloring and carefully pour it in.
- Watch as each liquid floats or sinks, forming stripes of color.





The Science Behind It

- Each liquid has a different density.
- Heavy liquids (like honey) sink to the bottom.
- Lighter liquids (like rubbing alcohol) float on top.
- That's why they don't mix - and why you see a rainbow in your jar!

