



DINO'S DYNAMOS Experiment

Catch a Rainbow

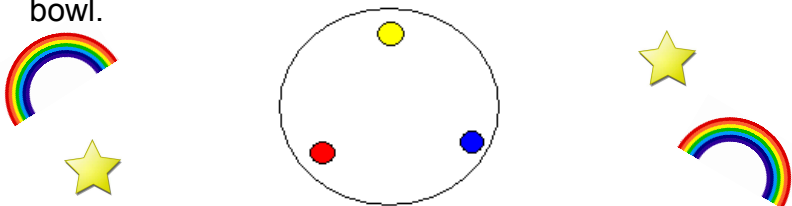
What you need:

- Red food colouring
- Yellow food colouring
- Blue food colouring
- Milk
- Shallow bowl
- Washing up liquid

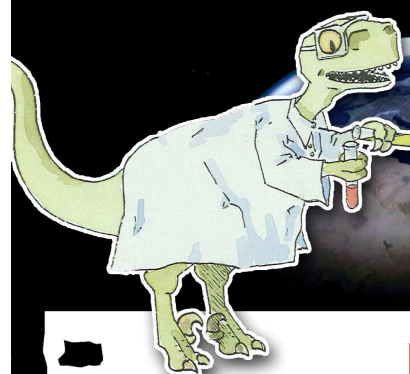


Step 1 Pour milk into the bowl until it is nearly full.

Step 2 Add a few drops of red food colouring near the edge of the bowl. Do the same with the yellow and blue food colouring, spacing them out equally around the edge of the bowl (see the picture below). Try not to shake the bowl.



Step 3 Squeeze a few large drops of washing up liquid into the centre of the bowl. Watch the rainbow form!



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Explain the Experiment

What happened when you added the washing up liquid?



The washing up liquid contains compounds that push away water. The milk is water-based so the two liquids do not mix together. This makes the washing up liquid spread out over the surface of the milk to form a thin layer. As it spread out, it pulls the food colouring with it.



When the colours of the food colouring mix, they form different colours.

Red, blue and yellow are primary colours. The colours formed when they mix together are known as secondary colours.



Red + Blue = Purple
Red + Yellow = Orange
Blue + Yellow = Green

