

INVISIBLE SODA

★ GRADES 6-8 ✪ SCIENCE SKILLS: SOLUTIONS/MIXING/COLORS ★

What you need:

- 20 oz. bottle of regular (brown) soda, such as Coke or Dr. Pepper. Note: Must be in a clear, plastic container.
- 2% milk

What to do:

1. Open a fresh, new bottle of brown-colored soda.
2. Carefully pour 2% milk into the bottle with the soda until the bottle is completely full.
3. Replace the bottle cap and screw it on tightly.
4. Now, you'll need to exercise some patience. Observe the milk and soda mixture in regular half hour intervals.
5. What's happening? Slowly, but surely, the milk settles at the bottom and the soda becomes invisible. Holy guacamole!

How does it work?

Invisible soda? What in the world? The soda becomes invisible because of a reaction between phosphoric acid and milk. Phosphoric acid molecules attach to the molecules of milk, increasing the density and separating them from the rest of the liquid. The remaining liquids, having less density than the phosphoric acid and milk molecules, float on top.

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