CHEMICAL ENGINEERING | POP ROCK REACTION

Description

SKILL LEVEL: ADVANCED

In this experiment, you will be using principles of chemical engineering to create a pop rock reaction! This activity will work great when done either solo or in small groups and only takes around 10 mins.

How does it work? In this experiment, the balloon expands because the carbon dioxide in the soda is able to escape the liquid and float upwards. But how does it escape? Pop rocks also contain carbon dioxide (this makes their famous popping noise!) which is released when exposed to liquid. The carbon dioxide in the soda sticks to the surface of the candy. When the pop rocks' carbon dioxide is released, the gas in the soda rises up with it!

Materials Needed

- Pop Rocks candy
- Balloon
- Funnel
- Bottle of soda

Directions

1. Place the balloon over the mouth of the funnel
2. Pour the packet of Pop Rocks candy into the funnel and gently tap the funnel until all the candy falls into the balloon
3. Remove the cap from the soda bottle and place the balloon over the opening; make sure none of the Pop Rocks candy falls into the soda
4. Lift up the balloon so all the Pop Rocks candy falls into the soda at once

Video Instructions

Supply Links

Pop Rocks Candy:
https://www.amazon.com/gp/proXduct/B00XUZWFM/ref=ppx_yo_dt_b_asin_title_o02_s01?ie=UTF8&psc=1

Troubleshooting

Balloon not filling up all the way?
Make sure that all of the Pop Rocks fall into the soda bottle at the same time. If you are doing this experiment multiple times your funnel may be clogged with candy- clean it out before each attempt!