

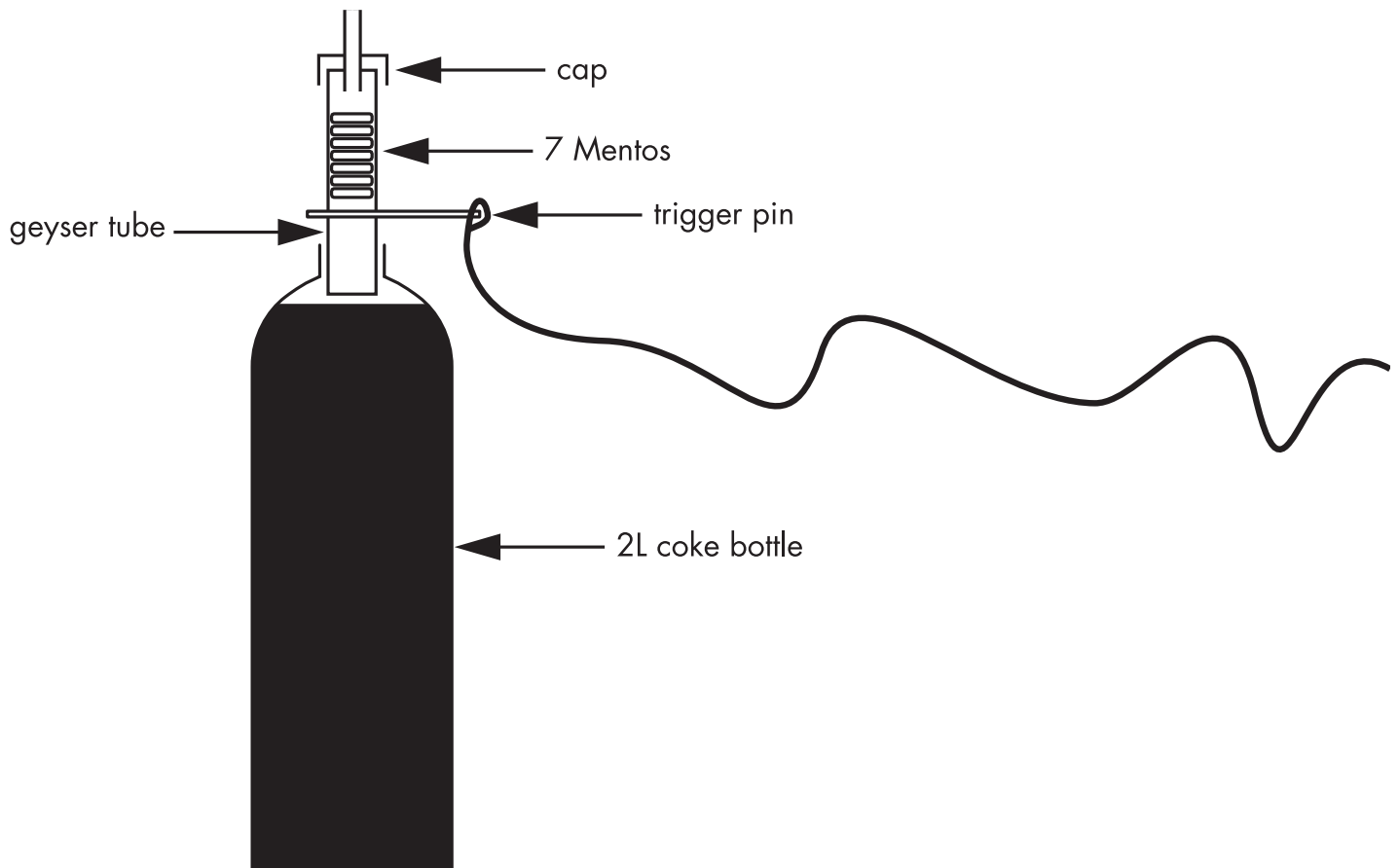
Top 10 Flash Bang Demos

Number 6 Coke fountain

Watch the coke **blast out** of its bottle in this **fun** but **messy** demonstration

Equipment

- Geyser tube (available from internet sites such as firebox)
- 2L bottle diet coke
- Tube of Mentos mints



Safety precautions

Outside demonstration only!

Always carry out your own risk assessment for this demonstration.





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Number 6 Coke fountain

Method

- Put the trigger pin into the geyser tube to block the hole
- Fill the geyser with seven Mentos
- Go outside!
- Remove the coke bottle lid and attach the geyser mechanism to the top of the bottle
- Pull trigger pin
- Coke will explode out of the bottle

The science bit

Each Mentos has thousands of tiny pits over the surface, called nucleation sites, which are perfect places for bubbles to form. As soon as the Mentos hit the coke they sink to the bottom of the bottle and bubbles of carbon dioxide form all over their surface. These bubbles then rise to the surface of the bottle pushing all the liquid up and out of the bottle in one blast!

Demonstration tips and interesting facts

Compare this to a real geyser - steam and water being ejected from underground, which can go a lot higher than the coke and Mentos experiment.

Make a big deal of releasing the Mentos into the coke, countdown from 10 and lift off; use the Thunderbirds music; or confirm to pupils that you are licensed to do this safely and your life insurance covers it!

Carry an umbrella - the front row of pupils could be given black plastic bags if you are feeling generous.

Other things to try

You could see if different types of coke affect the height of the coke fountain.

Does the temperature of the coke have an effect?

Does the size of the bottle have an effect?

Instructions are in accordance with CLEAPSS guidelines and safety information.