

# The Awesomely Amazing Science club

WHIZZ POP BANG!

## Teacher-led activity

## COLA EXPLOSIONS



### You will need:

- A large bottle of diet Coke®
- One sheet of A4 paper
- One pack of mint Mentos

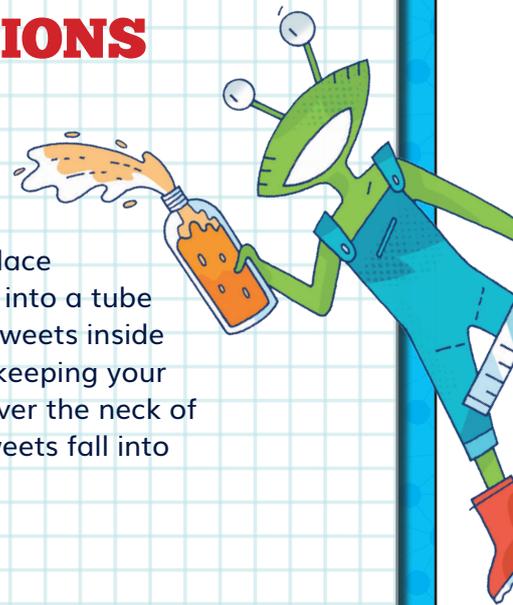
Make sure pupils stand away from the bottle to avoid getting wet!

### What you do:

In a large outdoor space, take the lid off a large bottle of diet Coca-Cola® and place it on the ground. Now roll a sheet of paper into a tube big enough to fit a tube of Mentos chewy sweets inside it. Empty the sweets into your paper tube, keeping your finger over the bottom. Position the tube over the neck of the bottle, take your finger off so all the sweets fall into the bottle at once, and **RUN!**

### You should find:

This amazing explosion happens because Mentos are covered with tiny dents which the carbon dioxide bubbles in the fizzy cola attach to. Because the sweets are heavy, they fall straight to the bottom of the bottle, but all those bubbles grow and grow, the pressure increases, and the liquid explodes out of the top of the bottle!



## Pupil activity

## CHOCOLATE WELDING

### What you do:

Carefully pour some very hot water into a jug. Hold a piece of chocolate against the outside of the jug until it melts, then press it against another piece of chocolate until the melted part sets and they stick together. Keep melting and sticking until you have made a sculpture!

### You should find:

Melting chocolate is a reversible change. It starts as a solid, then the heat causes it to become a liquid. When its temperature drops again (as you move it away from the hot water), it reverts to a solid state.

### You will need:

- A jug
- Hot water
- Chocolate buttons and sticks



### What if...

you used white chocolate?  
Challenge: Who can make the tallest structure?

