

# A chemically powered boat: a bubble boat race

- Design and make a boat propelled by the reaction between 1 teaspoon of bicarbonate of soda (sodium hydrogencarbonate) and 3 teaspoons of citric acid. The fuel can be carried on the boat or the gas can be generated separately and stored in a balloon. The boat is to be constructed from cheap, readily available materials and must be powered by bubbles. The aim is to design the boat that travels the furthest distance.

## Health & Safety

In planning this activity, you should consider health and safety. Check your plans with your teacher before implementing them.

Eye protection must be worn.

Citric acid is an eye irritant

Sodium hydrogencarbonate is of low hazard.

## Credits

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*Health & safety checked May 2018*

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