

# Bubble trouble



## Location

First floor, Curiosity zone exhibition

## In a nutshell

Take a look at what happens to our model boat when a large bubble of gas is released from below.

## What to do

Press the button when it is lit and the boat is visible at the top of the tube to release a large bubble of gas.

## Time Required

KS1 & KS2 2 minutes per student.

## What's happening?

It has long been known that large pockets of methane gas are trapped below the ocean floor. These pockets can be released if disturbed or if the pressure becomes too large. When the released gas reaches the surface it could cause a large area of bubbling low density froth. A ship would not be able to float in this lower density fluid and so would sink.

A trawler discovered resting in a large methane crater off the east coast of Scotland is believed to have sunk because of this phenomenon and this could also account for why so many ships disappeared in the 'Bermuda Triangle'.

## Curriculum links

<b>KS1/2</b>	<b>Science - Forces</b>
	- (Yr5) identify the effects of air resistance, water resistance and friction, that act between moving surfaces
	<b>English - Spoken language</b>
	- use spoken language to develop understanding through speculating, hypothesising, imagining and exploring ideas
	- consider and evaluate different viewpoints, attending to and building on the contributions of others
<b>English - Reading – comprehension</b>	
- (Yr1) discussing word meanings, linking new meanings to those already known	
- (Yr2) discussing and clarifying the meanings of words, linking new meanings to known vocabulary	

## Relates to:

Workshops & Theme Days	Shows	Trails	Other exhibits
<ul style="list-style-type: none"><li>• Fantastic Forces (KS2 upper)</li><li>• Forces and Magnets (KS2 lower)</li><li>• Pushes and Pulls (KS1)</li><li>• Bloodhound Rocket Car day (KS2)</li></ul>	<ul style="list-style-type: none"><li>• Field day forces (KS2)</li><li>• Launch it! (KS2)</li><li>• Splash and Bubble (KS1 &amp; KS2 lower)</li></ul>		<ul style="list-style-type: none"><li>• Bernoulli blower</li><li>• Launch it</li><li>• Pump it up</li><li>• Under pressure</li></ul>

