

# Wonderstruck Presents... The Expanding Gas Show

## What's it about?

Here at Wonderstruck we think that the role of expanding gas in humankind's technological development has been dramatically overlooked.

This show strives to correct that by examining how we use expanding gases to do useful work.

This show comes in two versions - 'big' and 'small'. The small version is for indoor performance and the big version for outdoors.

Both versions are spectacular but the outdoor version incorporates a 2 metre long jet engine, a 3 metre long vortex cannon and the world's only (as far as we know) liquid nitrogen shower.

## Who's it for?

This show is designed for families and public audiences and is an exciting presentation for festivals and large events!



**WONDERSTRUCK**  
SCIENCE ON FIRE



'Entertaining & informative. I still can't get my head around the liquid nitrogen shower. Why didn't you shatter into millions of bits??'

Audience member  
Hullabaloo, May 2019

## Show Requirements

The 'small' version is performed indoors in a hall-type space with at least 3 metres floor to ceiling height. The performance space needs to be approximately 5 metres wide and 4 metres deep with a 2 metre safety space between that and the audience. **Any smoke alarms or heat detectors in the hall or adjoining areas into which smoke might drift must be disabled for the duration of the show.**

The 'big' version is for outdoor performance only and requires staging and a PA. Performance is weather dependent. The show contains some very loud noises, so give your neighbours advance warning!

## The Science

The STEM content of the show is wide ranging, but the main topics covered are:

- Forces
- Pressure
- Combustion
- Applications of science

We can differentiate content according to age group.

## Duration

The show can run from 20 to 30 minutes with a 15 minute set up and 10 minute take down.

That liquid nitrogen explosion was just crazy. Teddy bears thrown 40 feet in the air and a jet engine as well! Never seen anything like it!

Audience member  
Make the Future, July 2018



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