

The Wonderstruck STEMbox

Rocket Sleigh Workshop

What happens?

Rocket Sleighs are Christmas versions of our Rocket Cars, which are small cars powered by a simple water rocket engine.

Participants investigate how altering various different factors affect their car's performance. If the weather's bad the cars will run on air only so you don't need to get wet and cold!

Who's it for?

KS1 all the way to adult!

How does this work?

We send you a box filled with most of the bits you need to build 30 Rocket Sleighs plus pdf instruction sheets, a Powerpoint showing how to build the cars and covering the basic science. There are also teacher notes explaining how to run the workshop.

We also throw in lots of seasonal craft materials!

What don't we provide?

You'll need to provide basic stuff like scissors and tape. You'll also need to provide a 0.5 litre PET fizzy drink bottle for each car and a couple of bike pumps.



WONDERSTRUCK
SCIENCE ON FIRE



'I'm not sure who got more excited, me or my daughter!

We had great fun doing this together and were surprised how fast it went.'

Workshop Participant, age 33

Workshop format

The workshop starts with an introduction which covers the necessary science. This is included in the Powerpoint file accompanying the workshop. We can also organise a live intro via Zoom if you prefer.

Participants can then build, test and modify their Rocket Sleigh and the workshop finishes with an exciting race-off.

The science

The STEM topics covered in this workshop are:

- Forces
- Momentum/inertia (older/more able groups)
- Pressure

We can differentiate content for participants from KS1 to adult!

What's the cost?

A class box of 30 Rocket Sleigh parts plus all supporting resources & craft materials is £130.00 plus VAT plus P&P.

Duration

For a workshop with 30 participants we would allow 90 minutes plus. Exact workshop duration depends on how you run things and the number of participants.

'That was brilliant!

I'd like to build a full-size Rocket Car to ride to school on!'

KS2 Pupil



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