

The Wonderstruck

STEM in the **BOX**

Rocket Car Workshop

What happens?

Rocket Cars 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 Mini - Rocket Cars 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.

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. Exact details of what you need to provide are in the teacher notes.



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 Car 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 Car parts plus all supporting resources is £90.00 plus VAT plus P&P. Discounts are available for additional boxes.

Duration

Exact workshop duration depends on exactly how you decide to run things and how many participants you have.

For a workshop with 30 participants we would allow 60 to 90 minutes.

'That was brilliant!

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

KS2 Pupil



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