

# The Wonderstruck STEMbox

# Fan-Powered Car Workshop

## What happens?

Fan-Powered Cars are small cars powered by an electric motor turning a fan.

Participants investigate how altering various different factors affect their car's performance.

## Who's it for?

KS2 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 Fan-Powered 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 two AA batteries for each car. We can provide these if you like but there will be an additional cost. Exact details of what you need to provide are given in the teacher notes.



**WONDERSTRUCK**  
SCIENCE ON FIRE



'I learned how to put a motor in a circuit and how to change the way it spins.'

It was really fun and my car was pretty fast.'

KS2 Pupil

## 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 Fan-Powered Car and the workshop finishes with an exciting race-off.

## The science

The STEM topics covered in this workshop are:

- Forces & Energy
- Simple circuits

## What's the cost?

A class box of parts for 30 Premium Fan-Powered Cars plus all supporting resources is £175.00 plus VAT plus P&P. We also supply a budget version with wooden wheels and no motor switch for £140.00 plus VAT plus P&P per class box. 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.

'Great resources  
and great fun!'

KS3 Science Teacher



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