

# COMPRESSED AIR CAR WORKSHOP

AGE SUITABILITY: KS1 TO KS3

UP TO 150 PARTICIPANTS

## THE TASK

Pupils work in small teams to build, test and modify a simple car powered by compressed air.

We start our session with an introduction to the science behind the activity, examining the forces involved and introducing Newton's Third Law of Motion. This workshop is suitable for very young children (with adult assistance) so we can explain the science very simply if necessary.



In their teams, participants build and decorate their cars and we run a series of heats to find the Ultimate Champions.

## WORKSHOP FORMATS

We can deliver this workshop to groups of up to 150 in about 90 minutes.

## WORKSHOP REQUIREMENTS

To run the workshop we need a space suitable for the number of participants to undertake a practical activity. For larger groups we will usually split into a number of separate classrooms for the car construction. We will need access to a large space with a smooth, flat floor for the introductory presentation and the final competition.

## THE SCIENCE

The main STEM topics covered in this workshop are:

- Forces (inc. Newton's Third Law of Motion)
- Friction
- Aerodynamics

This workshop can also cover aspects of experimental data collection and processing (taking multiple readings, averaging, fair tests etc) and more holistic skills such as team working, communication, investigation etc.

## CONTACT US

If you've got a question or would like to make a booking you can contact us on:

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E: [enquiries@wonderstruck.co.uk](mailto:enquiries@wonderstruck.co.uk)



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