

THE WONDERSTRUCK

CRAWLERS WORKSHOP

AGE SUITABILITY: KS2 TO ADULT

UP TO 150 PARTICIPANTS

THE TASK

Pupils work in teams of three to build a prototype 'Crawler'. Crawlers are small vehicles that use geared motors to move themselves about. As a result they move about quite slowly but develop quite a bit of torque. This means that they can overcome small obstacles and will work outside on playing fields and any other rough terrain your school can offer.

Teams test the prototype to establish a benchmark performance and can then investigate how changing the specific components affect its performance. The session ends with a competition to find the 'best' Crawler.



WORKSHOP FORMATS

We can deliver this workshop in an hour to small class-sized groups.

We can run this workshop with up to 150 participants and we have a full day version for smaller groups (up to 60) of older children (KS3 and above) where teams work to budgets and use tools including hammers, screwdrivers and hot glue guns to build their own Crawlers. The longer session ends with a competition comprising racing, team presentations and judging on design and build.

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 Crawler construction. We will need access to a large space with a smooth, flat floor for the introductory presentation.

THE SCIENCE

The main STEM topics covered in this workshop are:

- Forces
- Torque/moments
- Friction
- Energy

This workshop also covers 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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 [FACEBOOK.COM/WONDERSTRUCKWOW](https://www.facebook.com/wonderstruckwow)

 [YOUTUBE.COM/WONDERSTRUCKWOW](https://www.youtube.com/wonderstruckwow)

