

# The Wonderstruck... Crawlers Workshop

## What happens?

Crawlers are simple vehicles powered by geared motors. These generate a fair amount of torque so Crawlers can cover rough ground and climb over obstacles.

Pupils work in teams of three to build and modify a Crawler. The session ends with a competition to find the 'best' Crawler.

## Who's it for?

Ks2 all the way to adult!

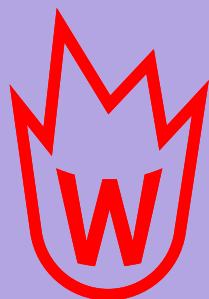
## How many can take part?

We can run this workshop with up to 100 participants.

## Workshop requirements

We will need access to a suitable space for the introductory presentation. Crawler testing is usually done outside.

For larger groups we will usually split into a number of separate classrooms for Crawler construction.



**WONDERSTRUCK**  
SCIENCE ON FIRE



'Loved the context. Children are just so engaged by space and the Crawlers were a fab way of showing how science and engineering work together'

KS3 Science Teacher

## Workshop formats

The workshop starts with an introduction to all participants which covers the science and the process of the workshop. Participants then work in teams of three to build, test and modify their Crawler. We finish off with an exciting competition to find the 'best' Crawler.

We often present the Crawler workshop in combination with our 'Solar System Explorer' contextualisation material which sets the scene by looking at the use of robot probes to explore other planets.

## The science

The STEM topics covered in this workshop are:

- Forces
- Simple circuits
- Torque/moments (KS3 and above)

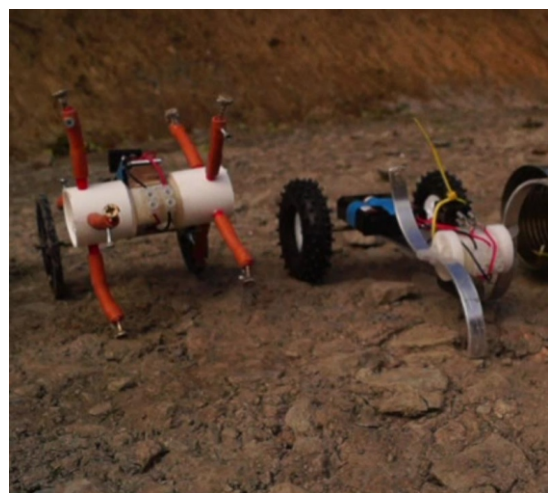
We can differentiate content for participants from KS2 to adult!

## Mix & match

Crawlers makes an ideal accompaniment to our Rocket Show and Compressed Air Rocket Workshop.

## Duration

Exact workshop duration depends on the particular format and number of participants. We can run this workshop in its basic form in 90 minutes with 30 - 60 participants. With the 'Solar System Explorer' contextualisation material, workshop duration is about 2 hours 15 minutes.




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'I had no idea that space was  
so **BIG!**'

KS2 Pupil