



Sponsored by **ALFED**  
ALUMINIUM FEDERATION

## **BLOODHOUND ALUMINIUM DESERT WHEELS DESIGN & TECHNOLOGY CHALLENGE**

- Design & build all-terrain aluminium wheels for a World Land Speed Record Car -
- Win a trip to see BLOODHOUND and a visit to your school -
- For Years 3 to 6 (Key Stage 2 National Curriculum for Design and Technology) -

### **The Challenge**

BLOODHOUND SSC's wheels will be the fastest ever created, spinning at 170 times a second. They are made from a strong aluminium alloy, but they could break apart if they hit a rock.

Can you help our engineers by designing all-terrain wheels to cope with our rough track?

### **The Competition**

- Download the instructions to build a model BLOODHOUND car, then design and create wheels by cutting and shaping aluminium cans.
- Construct a surface to simulate the desert at Hakskeen Pan to test your wheels.
- Keep analysing and improving your design to make the fastest possible, then create an A1 poster and a 3-minute video documenting your discoveries.
- Choose which teams from your school/group/club to put forward for the final.
- Competitors must be in Years 3 to 6 (aged 7 to 11) and in groups of up to four.
- This project should take a maximum of 5 hours.

### **The Prize**

Ten teams of finalists will be invited to talk through their projects with the BLOODHOUND Education Team. The winners will receive a visit from the BLOODHOUND Education Team to run a Rocket Car workshop\* at their school/group/club.

### **How to Get Started**

**Register now!** Then get started – you can submit your poster and video as soon as you're ready.†

Visit [www.BLOODHOUNDEducation.com](http://www.BLOODHOUNDEducation.com) to download your Teacher and Student Packs.



\* Other workshops are available – please see competition details online

† Registration deadline: 31<sup>st</sup> March 2019. Project submission deadline: 12 noon on 31<sup>st</sup> March 2019.