

Scientists and engineers are always trying to improve their designs. For example, once they have designed a fast car, they would then work building an even faster one. At the moment teams from across the world are designing and testing cars that they hope will one day break the existing land-speed record. This is how they are doing it.

### **The Bloodhound Project**

- Working as part of the Bloodhound Project, the team includes the former land-speed record holder Richard Noble and the current record holder Andy Green.
- The car currently being designed is constructed from a rocket, a jet engine and an additional Formula 1 racing car engine.
- The design was tested in October 2012. The results were so impressive that the engineers are convinced it will be able to travel up to 1000 miles per hour.
- The project is very expensive and so using a jet engine was one way of keeping costs down. The jet engine was donated by the army.

### **Who else is designing a car to break the land-speed record?**

- There are five teams who are working on car designs to break the land-speed record.
- One of the other teams is run by American Waldo Stakes. He claims his car, called Sonia Wind, will be able to travel at 2000 mph.
- There are two competitors in Australia currently working on designs along with one in New Zealand and a Canadian-American partnership.

### **Design your own car....**

- Could you design a car that could break the land-speed record?  
What features would your car need?

### **Let's find out....**

How many land-speed record attempts have there been? Use the internet to find out as much information as you can. Many of the attempts take place in deserts or on salt flats. Why do you think this might be?

