TECHNOLOGY

1 If 1,000mph can be reached, how long will it take BLOODHOUNDSSC to travel the one mile timed section?

2 Hopefully, BLOODHOUNDSSC will go faster than 1000mph. What is an easy method to convert this speed into km/h?

www.bloodhoundssc.com

SCIENCE

BLOODHOUNDSSC Chatterbox 2

5 Knowledge of which four main subjects, is needed to design, build, test and race a car like BLOODHOUNDSSC?

Divide the number of seconds in 1 hour by 1000 €
3600 ÷ 1000 =

3.6 SECONDS!

STEM
Science
Technology
Engineering
Mathematics

1900 - 65mph,
1925 - 150mph
1950 - 394mph

1mile=1.6km
So multiply the speed in mph by 1.6 € 1000mph is approximately **1600km/h**

They increase air resistance

6 How will the airbrakes and parachutes help slow down the car?

www.Kfpbooks.com

Key Facts Publications

Primary **Engineer**
www.primaryengineer.com

1500 feet per second
(an easy method is to halve the speed and multiply by three)

1. divide 3600 (seconds in 1 hour) by the seconds taken to cover the 1 mile timed section.
2. the final speed is the average of two runs

Strength and **Stiffness** (rigidity)

7 Which **two** engineering properties, do the materials used for the body and chassis need to have?

8 The current land speed record is **763mph**. How did the record stand: in **1900**, in **1925** and in **1950**?

ENGINEERING

4 A car at 60mph travels **90 feet per second**. How many feet per second will BLOODHOUNDSSC travel!?

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How will the actual speed of BLOODHOUNDSSC be worked out?

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MATHEMATICS