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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
|  | **Year 11 Essentials 2020 – Practical Investigation 2**  **Estimation of Area and Volume**  **Marking Guide** | **Mark: / 34** |

**Interpret the Task**

States what they had to do in the report **[2 marks]**

Identify any math involved **[1 mark]**

**Identify the Mathematics Involved**

Counting number of hands and feet in a cubic meter with *proof\** **[3 marks]**

Area of a number plate with proof **[2 marks]**

Volume of a car boot with proof **[2 marks]**

Volume of a car with proof **[2 marks]**

**Analysing the Information**

Estimation column **[0.5 marks each]**

Real measurement column **[1 mark each]**

Difference in measurement column **[0.5 marks each]**

**Apply existing mathematical knowledge and strategies**

Working out with correct units for the following:

* Area of number plate **[2 marks]**
* Volume of car boot **[2 marks]**
* Volume of car **[3 marks]**

**Verify the reasonableness of your answer**

Presentation of report

* Set up in paragraphs **[1 mark]**
* Neat **[1 mark]**

Conclusion

* Summarising your findings **[1 mark]**
* How good was your estimation? **[1 mark]**
* What are the reasons for estimation and real measurements being off? **[1 mark]**

*Proof\** = dimensions, diagram, labelled picture